

PCG-GRT55F/GRT5xF/GRT77V/GRT99V/GRT9xV
PCG-GRT360ZG/GRT380ZG/GRT390Z/GRT390ZP
PCG-GRT915M/GRT916V/GRT916Z/GRT995MP/GRT996VP/GRT996ZP
PCG-GRT50ZCP

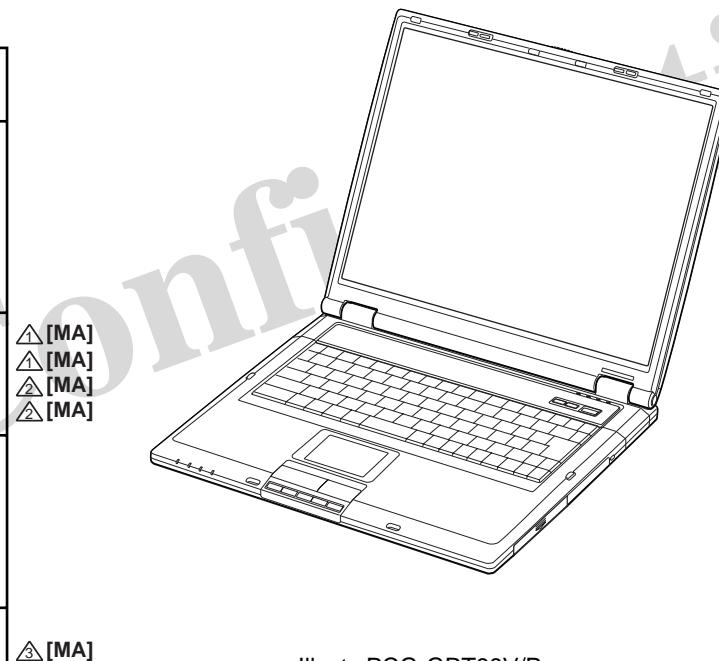
SERVICE MANUAL

Ver 7-2005F

Revision History

Area	Model	Line up
Japanese	Japanese	PCG-GRT55F/B PCG-GRT5xF* PCG-GRT5xF/P* PCG-GRT77V/P PCG-GRT99V/P PCG-GRT9xV* PCG-GRT9xV/P*
American	US Canadian	PCG-GRT360ZG PCG-GRT380ZG PCG-GRT390Z* PCG-GRT390ZP*
European	AEP UK	PCG-GRT915M PCG-GRT916V PCG-GRT916Z PCG-GRT995MP PCG-GRT996VP PCG-GRT996ZP
Asian/Oceania/ South Africa	China	PCG-GRT50ZCP

*: CTO Model



Illust : PCG-GRT99V/P

▲ [MA]
 ▲ [MA]
 ▲ [MA]
 ▲ [MA]

▲ [MA]



The Standard for
Wireless Fidelity.



- Design and specifications are subject to change without notice.
- 本機の仕様および外観は、改良のため予告なく変更することがありますが、ご了承ください。

NOTEBOOK COMPUTER

SONY®

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All other names of systems, products and services in this manual are trademarks or registered trademarks of their respective owners. In this manual, the (TM) or (R) mark are not specified.

Caution Markings for Lithium/Ion Battery - The following or similar texts shall be provided on battery pack of equipment or in both the operating and the service instructions.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

CAUTION: The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 100°C (212°F) or incinerate.

Dispose of used battery promptly.

Keep away from children.

CAUTION: Changing the back up battery.

- Overcharging, short circuiting, reverse charging, multilation or incineration of the cells must be avoided to prevent one or more of the following occurrences; release of toxic materials, release of hydrogen and/or oxygen gas, rise in surface temperature.
- If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any protection.

Service and Inspection Precautions

1. Obey precautionary markings and instructions

Labels and stamps on the cabinet, chassis, and components identify areas requiring special precautions. Be sure to observe these precautions, as well as all precautions listed in the operating manual and other associated documents.

2. Use designated parts only

The set's components possess important safety characteristics, such as noncombustibility and the ability to tolerate large voltages. Be sure that replacement parts possess the same safety characteristics as the originals. Also remember that the \triangle mark, which appears in circuit diagrams and parts lists, denotes components that have particularly important safety functions; be extra sure to use only the designated components.

3. Always follow the original design when mounting parts and routing wires

The original layout includes various safety features, such as inclusion of insulating materials (tubes and tape) and the mounting of parts above the printer board. In addition, internal wiring has been routed and clamped so as to keep it away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure to duplicate the original layout.

4. Inspect after completing service

After servicing, inspect to make sure that all

screws, components, and wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

5. When replacing chip components...

Never reuse components. Also remember that the negative side of tantalum capacitors is easily damaged by heat.

6. When handling flexible print boards...

- The temperature of the soldering-iron tip should be about 270C.
- Do not apply the tip more than three times to the same pattern.
- Handle patterns with care; never apply force.

Caution: Remember that hard disk drives are easily damaged by vibration. Always handle with care.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

**LES COMPOSANTS IDENTIFIÉS PAR UNE
MARQUE \triangle SUR LES DIAGRAMMES
SCHÉMATIQUES ET LA LISTE DES PIÈCES
SONT CRITIQUES POUR LA SÉCURITÉ DE
FONCTIONNEMENT. NE REMPLACER CES
COMPOSANTS QUE PAR DES PIÈSES SONY
DONT LES NUMÉROS SONT DONNÉS DANS
CE MANUEL OU DANS LES SUPPÉMENTS
PUBLIÉS PAR SONY.**

Confidential

PCG-GRT55F/GRT5xF/GRT77V/GRT99V/GRT9xV (J)

PCG-GRT360ZG/GRT380ZG/GRT390Z/GRT390ZP (AM)

PCG-GRT915M/GRT916V/GRT916Z/GRT995MP/GRT996VP/GRT996ZP (EU)

PCG-GRT50ZCP (AO)

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<p>History of the changes is shown as the "Revision History" at the end of this data.</p>					
<p>変更履歴は、"Revision History"として、本データ末に記載しております。</p>					

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PCG-GRT55F/GRT5xF/GRT77V/GRT99V/GRT9xV (J)

PCG-GRT360ZG/GRT380ZG/GRT390Z/GRT390ZP (AM)

PCG-GRT915M/GRT916V/GRT916Z/GRT995MP/GRT996VP/GRT996ZP (EU)

PCG-GRT50ZCP (AO)

CHAPTER 1.

SPECIFICATIONS

1-1. SPECIFICATIONS

△ [MA]

△ [MA]

△ [MA]

	J		J-CTO(15)		J-CTO(16)		AM		U-CTO	
	GRT99V/P	GRT77V/P	GRT55F/B	GRT5xF, GRT5xF/P*	GRT9xV, GRT9xV/P*	GRT380ZG	GRT360ZG	GRT390ZP/GRT390Z*		
CPU	Mobile P4-3.20GHz(HT)	Mobile P4-2.80GHz(HT)	Mobile Cel 2.40GHz	P4-2.80GHz, P4-2.66GHz, Mobile Cel 2.40 GHz	Mobile P4-3.20GHz(HT), Mobile P4-2.80GHz(HT)	Mobile P4-3.20GHz(HT)	Mobile P4-3.06GHz(HT)			
LCD	16.1" UXGA (Clear Black)	16.1" SXGA+ (Clear Black)	15" XGA (Clear Black)	15" XGA, 15" XGA(Clear Black)	16.1" UXGA(Clear Black), 16.1" SXGA+(Clear Black)	16.1" UXGA (Clear Black)	16.1" SXGA+ (Clear Black)	16.1" UXGA(Clear Black), 16.1" SXGA+(Clear Black)		
HDD	80GB	80GB	60GB	40GB, 60GB, 80GB	40GB, 60GB, 80GB	80GB	80GB	40GB, 60GB, 80GB		
Graphic	GeForceFX Go5600	GeForceFX Go5600	GeForce4 420Go	GeForce4 420Go	GeForceFX Go5600	GeForceFX Go5600	GeForceFX Go5600	GeForceFX Go5600		
MEMORY	512MB X 1	256MB X 2	256MB X 1	256MB X 1, 512MB X 1, 512MB X 2	256MB X 1, 512MB X 1, 1GB X 1, 1GB X 2	512MB X 2	256MB X 2			
QUANTITY [STANDARD/MAX]	512/2048	512/2048	256/1024	*1024	*2048	1024/2048	512/2048	256/2048		
OPT-DRIVE	DVD+/-RW	DVD+/-RW	DVD+/-RW	CD-RW/DVD-ROM, DVD+/-RW	DVD+/-RW	DVD+/-RW	DVD+/-RW	CD-RW/DVD-ROM, DVD+/-RW		
TV Tuner	O	O	O	O/X	O/X	O	O	X		
Int.Wireless lan	O	X	X	X	O	O	O	O/X		
AC adaptor	AC19V9	AC19V9	AC19V7	AC19V7	AC19V9	AC19V9	AC19V9	AC19V9		
Battery	BP2NY	BP2NY	BP2NX	BP2NX	BP2NY	BP2NY	BP2NY	BP2NY		
OS	XP Pro	XP Pro	xp Home	XP Pro/Home	XP Pro/Home	XP Home	XP Home	XP Home	XP Pro/Home	

△ [MA]

	EU					AO	
	GRT996ZP	GRT916Z	GRT996VP	GRT916V	GRT915M	GRT995MP	GRT50ZCP
CPU	Mobile P4-3.20GHz(HT)	Mobile P4-3.06GHz(HT)	Mobile P4-2.80GHz	Mobile P4-2.80GHz(HT)	P4-2.80GHz	P4-2.80GHz	Mobile P4-3.20GHz(HT)
LCD	16.1" UXGA (Clear Black)	16.1" SXGA+ (Clear Black)	16.1" SXGA+ (Clear Black)	16.1" SXGA+ (Clear Black)	15" XGA (High Brightness)	15" XGA (High Brightness)	16.1" UXGA (Clear Black)
HDD	80GB	80GB	60GB	60GB	60GB	60GB	80GB
Graphic	GeForceFX Go5600	GeForceFX Go5600	GeForceFX Go5600	GeForceFX Go5600	GeForceFX Go5600	GeForce4 420Go	GeForceFX Go5600
MEMORY	512MB X 2	256MB X 2	256MB X 2	256MB X 2	256MB X 2	256MB X 2	512MB X 1
QUANTITY [STANDARD/MAX]	1024/2048	512/2048	512/2048	512/2048	512/1024	512/1024	512/2048
OPT-DRIVE	DVD+/-RW	DVD+/-RW	DVD+/-RW	DVD+/-RW	DVD+/-RW	CD-RW/DVD-ROM	DVD+/-RW
TV Tuner	X	X	X	X	X	X	X
Int.Wireless lan	O	O	O	O	O	O	X
AC adaptor	AC19V9	AC19V9	AC19V9	AC19V9	AC19V7	AC19V7	AC19V9
Battery	BP2NY	BP2NY	BP2NY	BP2NY	BP2NX	BP2NX	BP2NY
OS	XP Pro	XP Home	XP Pro	XP Home	XP Home	XP Pro	XP Pro

△ [MA] *1)Mobile P4-2.20GHz-M,Mobile P4-2.40GHz-M,P4-2.80GHz,P4-2.66GHz,Mobile P4-2.60GHz-M,Mobile Cel 2.20GHz,Mobile P4-3.20GHz(HT),Mobile P4-3.06GHz(HT),Mobile P4-2.80GHz(HT)
*2)256MB X 1, 256MB X 2, 512MB X 1, 512MB X 2, 1GB X 1, 1GB X 2

• The trademarks or registered trademarks of above table, refer to page 2.

• The model that is accompanied by asterisk (*) is the CTO model
For the equipment configuration, refer to the CTO Information.

• 本表中の商標・登録商標については、2 ページをご参照ください。

• 機種名に (*) がつくのはCTOモデルです。

組み合わせについては、CTO Informationご確認ください。

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PCG-GRT55F/GRT5xF/GRT77V/GRT99V/GRT9xV (J)
PCG-GRT360ZG/GRT380ZG/GRT390Z/GRT390ZP (AM)
PCG-GRT915M/GRT916V/GRT916Z/GRT995MP/GRT996VP/GRT996ZP (EU)
PCG-GRT50ZCP (AO)

1-2. CTO Information

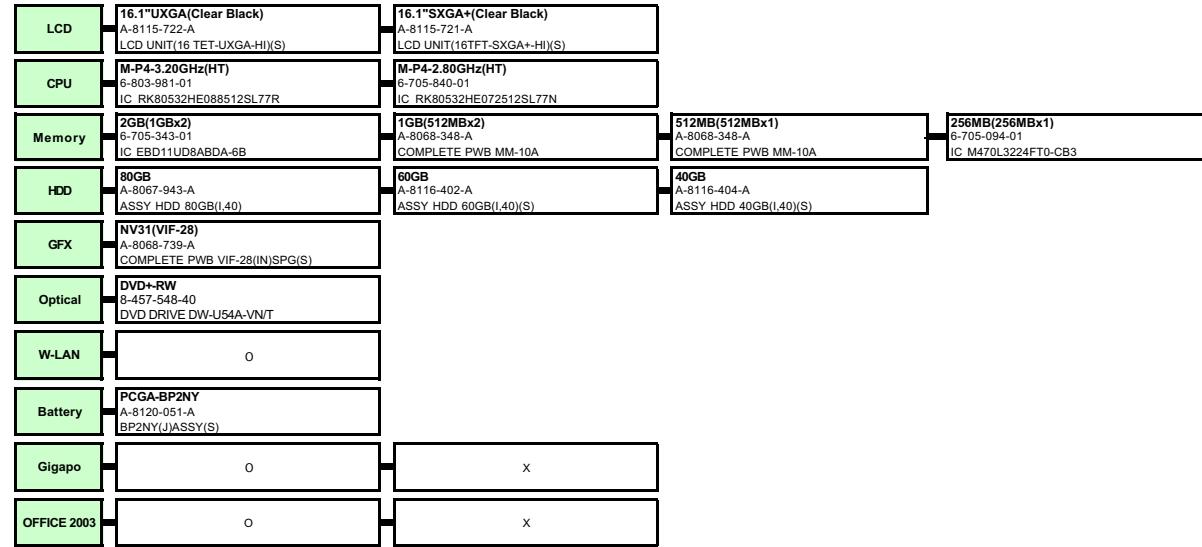
1. PCG-GRT9xV*

Model name : PCG-GRT9xV(Japanese Area)

Model Number:PCG-8P1N

OS:WindowsXP Home

Ver.1.0



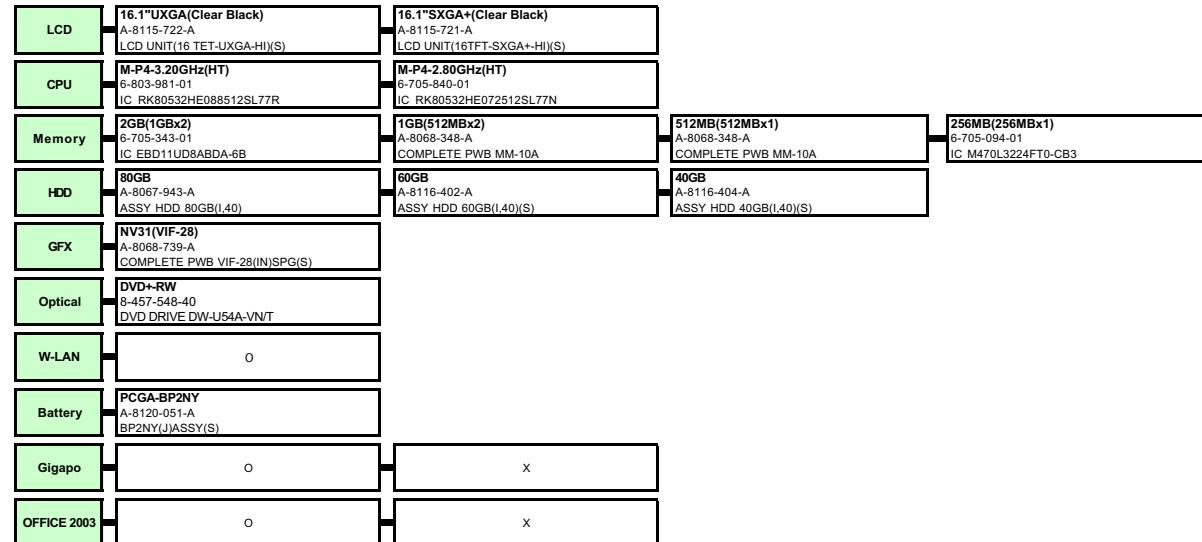
2. PCG-GRT9xV/P*

Model name : PCG-GRT9xV/P(Japanese Area)

Model Number:PCG-8P1N

OS:WindowsXP Pro

Ver.1.0



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3. PCG-GRT5xF*

Model name : PCG-GRT5xF(Japanese Area)

Model Number:PCG-8P4N

OS:WindowsXP Home

Ver.1.0

LCD	15 XGA(Clear Black) A-8115-792-A ASSY LCD 15XGA(HI)(S)	15 XGA A-8113-853-A ASSY LCD 15(SH)GT2(S)	
CPU	P4-2.80GHz 6-704-133-01 IC RK80532P072512SL6S4	P4-2.66GHz 6-704-666-01 IC RK80532PE067512SL6PE	M-CEL 2.4GHz 6-705-714-01 IC RH80532NC056256SL75J
Memory	1GB(512Mb2) A-8058-348-A COMPLETE PWB MM-10A	512MB(512Mb1) A-8058-348-A COMPLETE PWB MM-10A	256MB(256Mb1) 6-705-094-01 IC M470L3224FT0-CB3
HDD	80GB A-8067-943-A ASSY HDD 80GB(I,40)	60GB A-8116-402-A HDD(60GB,IC25N060ATMR04)	40GB A-8116-404-A ASSY HDD 40GB(I,40)(S)
GFX	SQ17(VIF-31) A-8068-514-A COMPLETE PWB VIF-31(S)		
Optical	DVD+RW 8-458-548-40 DVD DRIVE,DW-U54A-VN/T	CD-RW/DVD-RW 8-457-270-10 RW DRIVE CRX830E-VN	
W-LAN		X	
Battery	BP2NX A-8067-763-A BP2NX SNT(J)ASSY(S)		
Gigapo		O	X
OFFICE 2003		O	X

4. PCG-GRT5xF/P*

Model name : PCG-GRT5xF/P(Japanese Area)

Model Number:PCG-8P4N

OS:WindowsXP Pro

Ver.1.0

LCD	15 XGA(Clear Black) A-8115-792-A ASSY LCD 15XGA(HI)(S)	15 XGA A-8113-853-A ASSY LCD 15(SH)GT2(S)	
CPU	P4-2.80GHz 6-704-133-01 IC RK80532P072512SL6S4	P4-2.66GHz 6-704-666-01 IC RK80532PE067512SL6PE	M-CEL 2.4GHz 6-705-714-01 IC RH80532NC056256SL75J
Memory	1GB(512Mb2) A-8058-348-A COMPLETE PWB MM-10A	512MB(512Mb1) A-8058-348-A COMPLETE PWB MM-10A	256MB(256Mb1) 6-705-094-01 IC M470L3224FT0-CB3
HDD	80GB A-8067-943-A ASSY HDD 80GB(I,40)	60GB A-8116-402-A HDD(60GB,IC25N060ATMR04)	40GB A-8116-404-A ASSY HDD 40GB(I,40)(S)
GFX	SQ17(VIF-31) A-8068-514-A COMPLETE PWB VIF-31(S)		
Optical	DVD+RW 8-458-548-40 DVD DRIVE,DW-U54A-VN/T	CD-RW/DVD-RW 8-457-270-10 RW DRIVE CRX830E-VN	
W-LAN		X	
Battery	BP2NX A-8067-763-A BP2NX SNT(J)ASSY(S)		
Gigapo		O	X
OFFICE 2003		O	X

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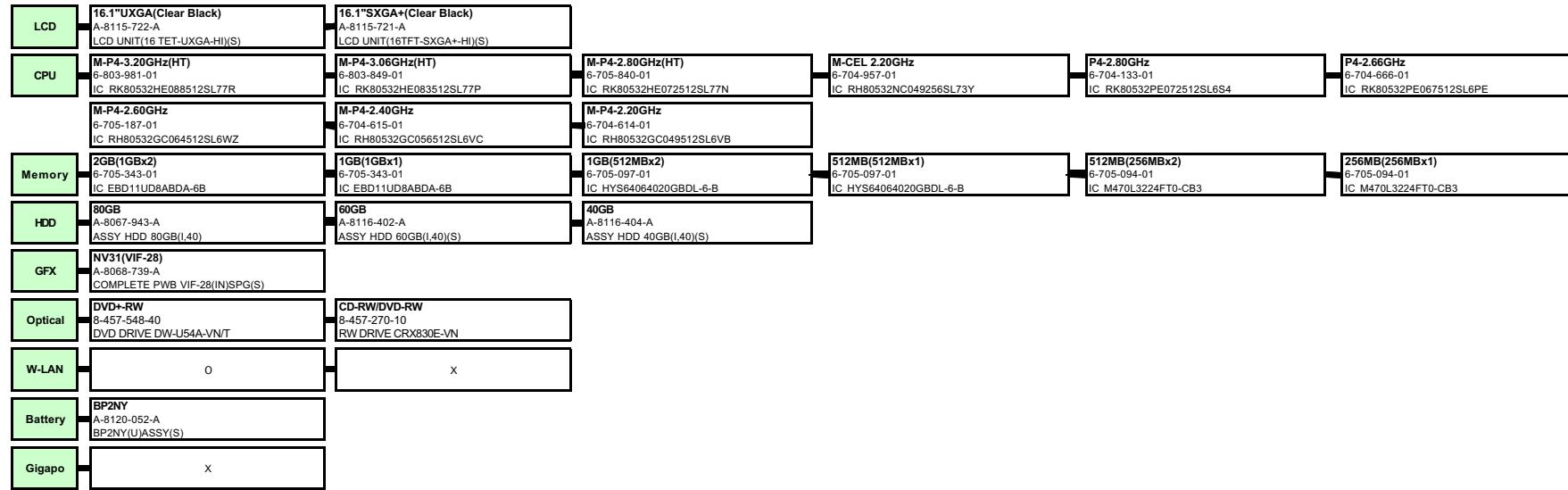
PCG-GRT55F/GRT5xF/GRT77V/GRT99V/GRT9xV (J)
PCG-GRT360ZG/GRT380ZG/GRT390Z/GRT390ZP (AM)
PCG-GRT915M/GRT916V/GRT916Z/GRT995MP/GRT996VP/GRT996ZP (EU)
PCG-GRT50ZCP (AO)

5. PCG-GRT390Z*

Model name : PCG-GRT390Z(American Area)
 Model Number:PCG-8P1N(With W-LAN),8P2L(W/O W-LAN)

OS:WindowsXP Home

Ver.1.0

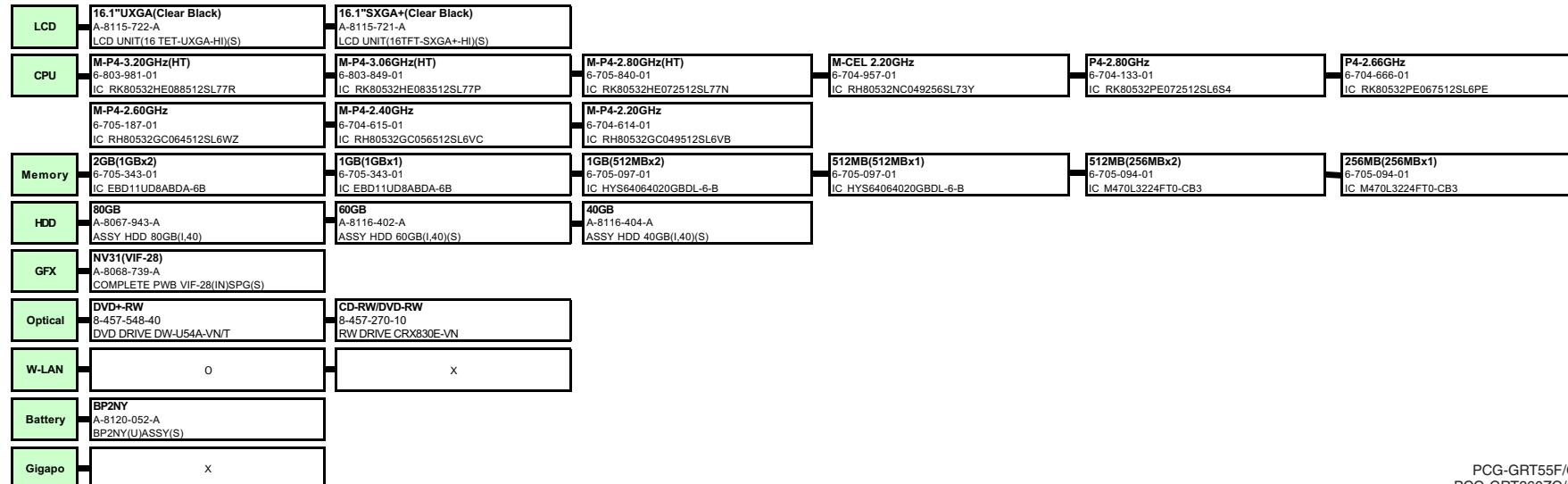


6. PCG-GRT390Z*

Model name : PCG-GRT390ZP(American Area)
 Model Number:PCG-8P1N(With W-LAN),8P2L(W/O W-LAN)

OS:WindowsXP Pro

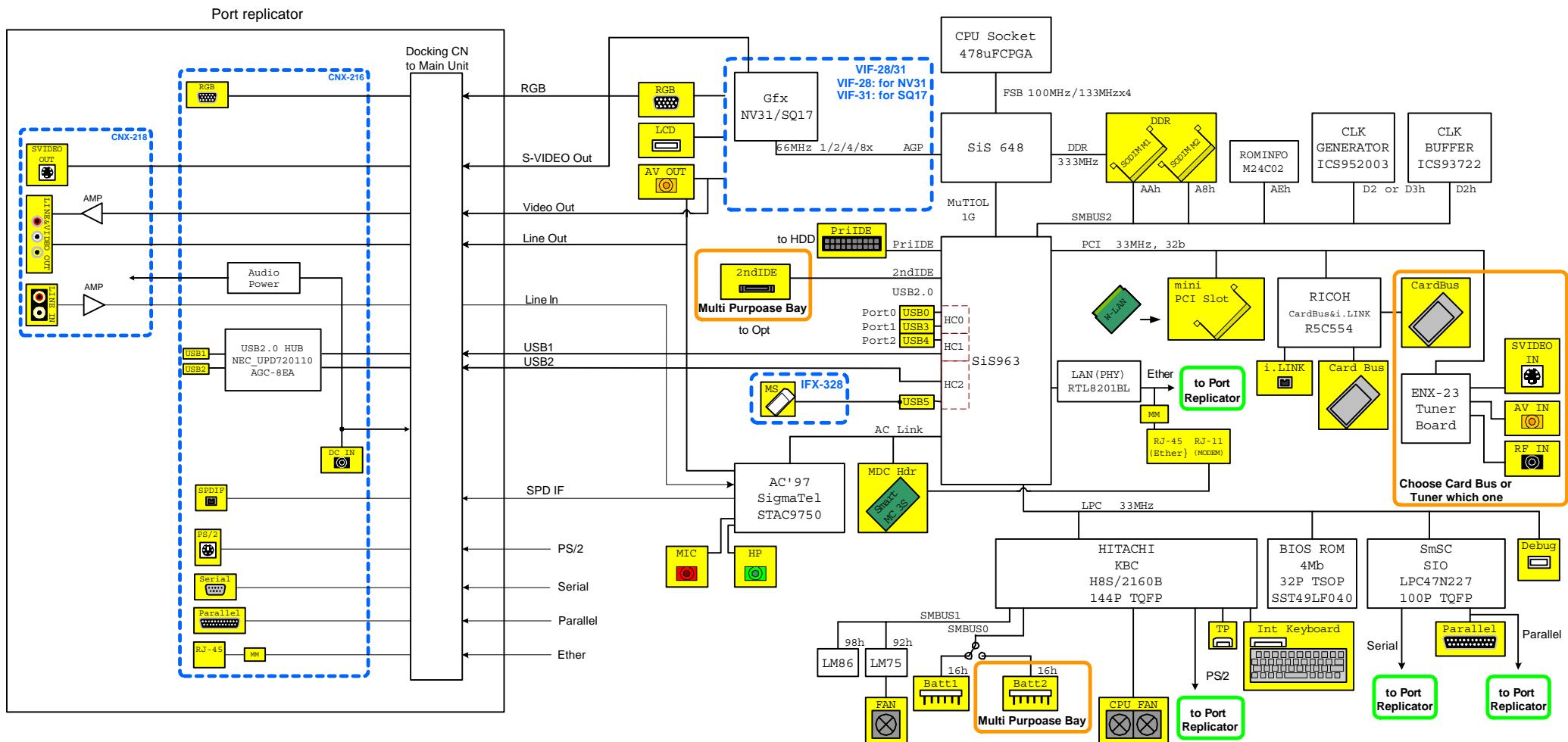
Ver.1.0



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CHAPTER 2.

BLOCK DIAGRAM



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PCG-GRT55F/GRT5xF/GRT77V/GRT99V/GRT9xV (J)

PCG-GRT360ZG/GRT380ZG/GRT390Z/GRT390ZP (AM)

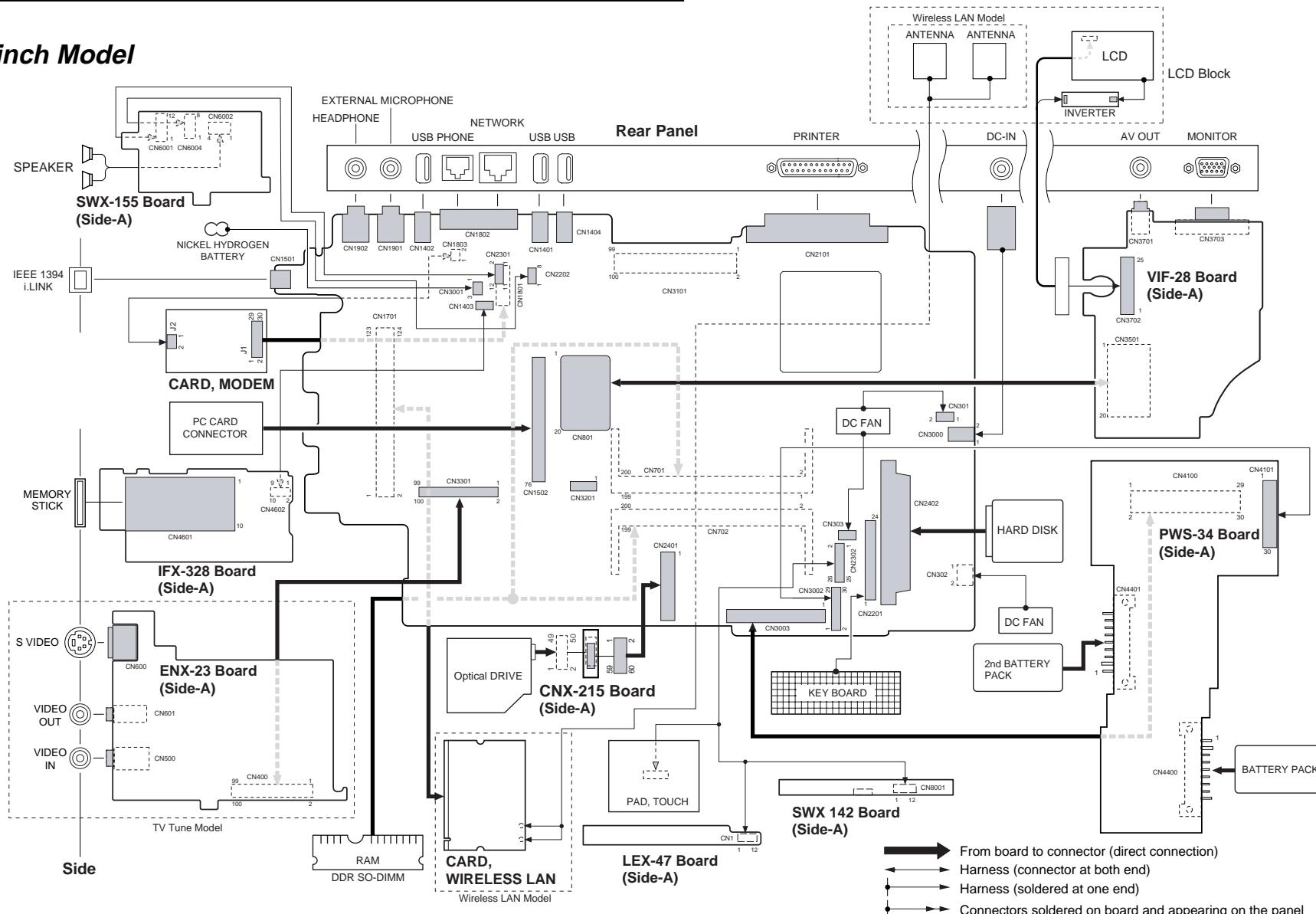
PCG-GRT915M/GRT916V/GRT916Z/GRT995MP/GRT996VP/GRT996ZP (EU)

PCG-GRT50ZCP (AO)

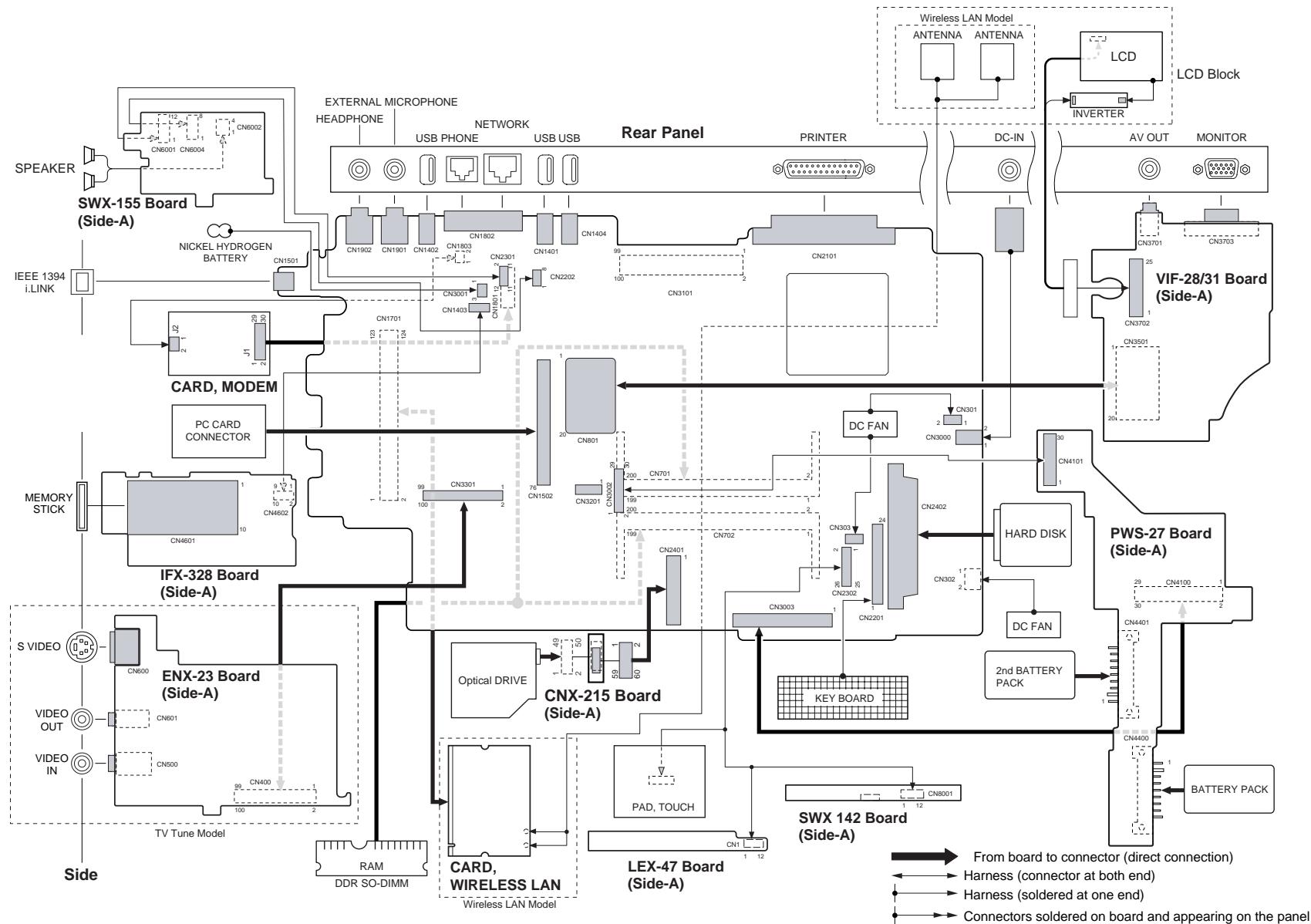
CHAPTER 3.

FRAME HARNESS DIAGRAM

3-1. 16-inch Model



3-2. 15-inch Model



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PCG-GRT55F/GRT5xF/GRT77V/GRT99V/GRT9xV (J)

PCG-GRT360ZG/GRT380ZG/GRT390Z/GRT390ZP (AM)

PCG-GRT915M/GRT916V/GRT916Z/GRT995MP/GRT996VP/GRT996ZP (EU)

PCG-GRT50ZCP (AO)

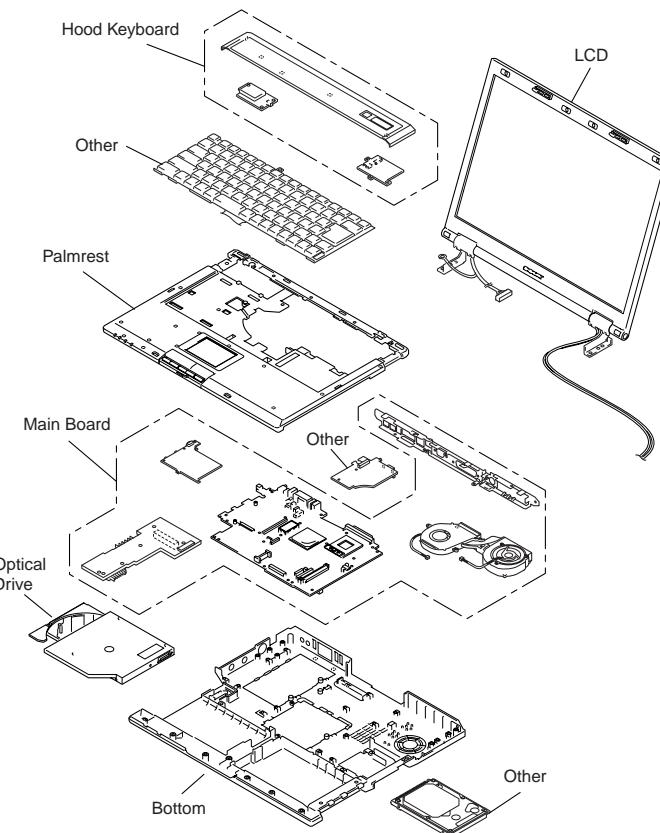
CHAPTER 4.

EXPLODED VIEWS AND PARTS LIST

- The parts list is compiled by blocks of a palmrest and bottom etc. The sections of the parts list are different depending on the model. Please refer to list of contents shown in the below.

Section	Page
Palmrest	
P-1. Palmrest (16-inch Model)	4-2
P-2. Palmrest (15-inch Model)	4-3
Main Board	
M-1. Main Board (16-inch Model)	4-4
M-2. Main Board (15-inch Model)	4-5
Bottom	
B-1. Bottom (16-inch Model)	4-6
B-2. Bottom (15-inch Model)	4-7
Hood Keyboard	
HK-1	4-8
Optical Drive	
D-1	4-9
Accessories	
A-1	4-13
Other Parts	
O-1	4-14
DIP Switch	
	4-15

- 分解図と部品表は、パームレスト、ボトムなどのブロックごとに分かれています。機種によって部品表のセクションが異なりますので、詳細は右下の一覧表を参照してください。



【使用上の注意】

- 印の部品は常備在庫しておりません。
- 図面番号のない部品は供給しません。
- 併記部品の場合、上部記載部品をメイン部品として使用してください。
- 部品名称の前に\$印のついた部品は、High Value Module (HVM)です。
- 商品名称の前に#印のついた部品は、バーコードラベル貼付部品です。
- バーコードラベルについてはCHAPTER 5を参照してください。
- 部品名称の前に&印のついた部品は、お客様窓口などでも交換可能なCustomer Replaceable Parts (CRP)です。
- 特に<&>印のついた部品は、使い分けが必要な部品ですので、分解図でCustomer Replaceable Parts 対象部品か、対象外部品かを必ず御確認ください。
- 本モデルの基板については、基板上の各部品の修理は行うことができません。ただし、一部のコネクタについては、修理可能です。
- 機種名に(*)がつくのは CTO モデルです。
組み合わせについては、CTO Information を御確認ください。

△印の部品、または△印付きの点線で囲まれた部品は、安全性を維持するために重要な部品です。従つて交換時は、必ず指定の部品を使用してください。

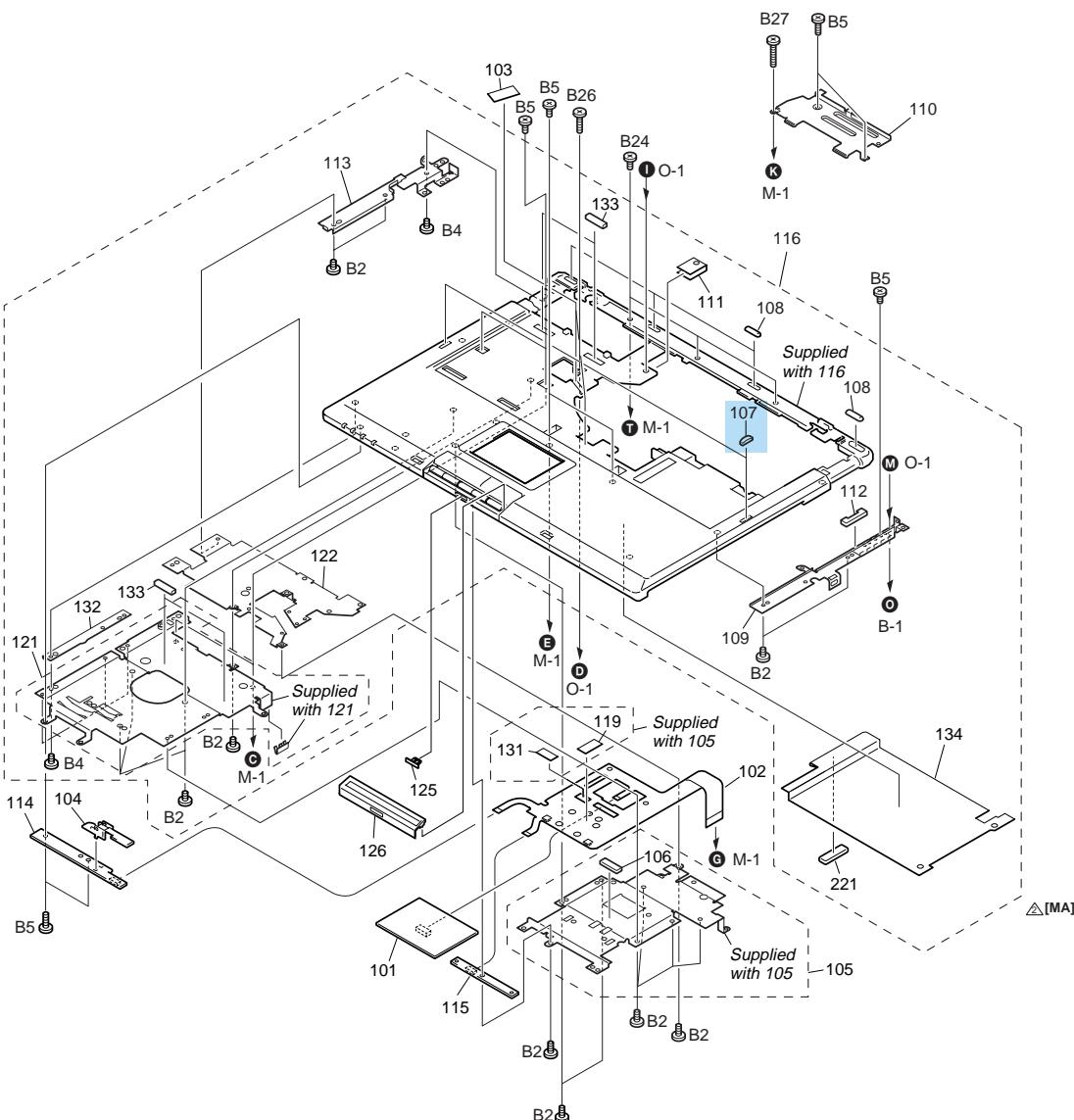
The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
---	---

		Palmrest	Main Board	Bottom	Hood Keyboard	Optical Drive	LCD	Accessories	Other
J	GRT99V/P	P-1	M-1	B-1	HK-1	D-1	L-1	A-1	O-1
	GRT77V/P	P-1	M-1	B-1	HK-1	D-1	L-1	A-1	O-1
	GRT55F/B	P-2	M-2	B-2	HK-1	D-1	L-2	A-1	O-1
	GRT5xF*	P-2	M-2	B-2	HK-1	D-1	L-2, 3	A-1	O-1
	GRT5xF/P*	P-2	M-2	B-2	HK-1	D-1	L-2, 3	A-1	O-1
	GRT9xV*	P-1	M-1	B-1	HK-1	D-1	L-1	A-1	O-1
	GRT9xV/P*	P-1	M-1	B-1	HK-1	D-1	L-1	A-1	O-1
AM	GRT380ZG	P-1	M-1	B-1	HK-1	D-1	L-1	A-1	O-1
	GRT360ZG	P-1	M-1	B-1	HK-1	D-1	L-1	A-1	O-1
	GRT390ZP*	P-1	M-1	B-1	HK-1	D-1	L-1	A-1	O-1
	GRT390Z*	P-1	M-1	B-1	HK-1	D-1	L-1	A-1	O-1
EU	GRT996ZP	P-1	M-1	B-1	HK-1	D-1	L-1	A-1	O-1
	GRT916Z	P-1	M-1	B-1	HK-1	D-1	L-1	A-1	O-1
	GRT996VP	P-1	M-1	B-1	HK-1	D-1	L-1	A-1	O-1
	GRT916V	P-1	M-1	B-1	HK-1	D-1	L-1	A-1	O-1
	GRT915M	P-2	M-2	B-2	HK-1	D-1	L-3	A-1	O-1
	GRT995MP	P-2	M-2	B-2	HK-1	D-1	L-3	A-1	O-1
AO	GRT50ZCP	P-1	M-1	B-1	HK-1	D-1	L-1	A-1	O-1

* : CTO Model

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P-1. Palmrest (16-inch Model)



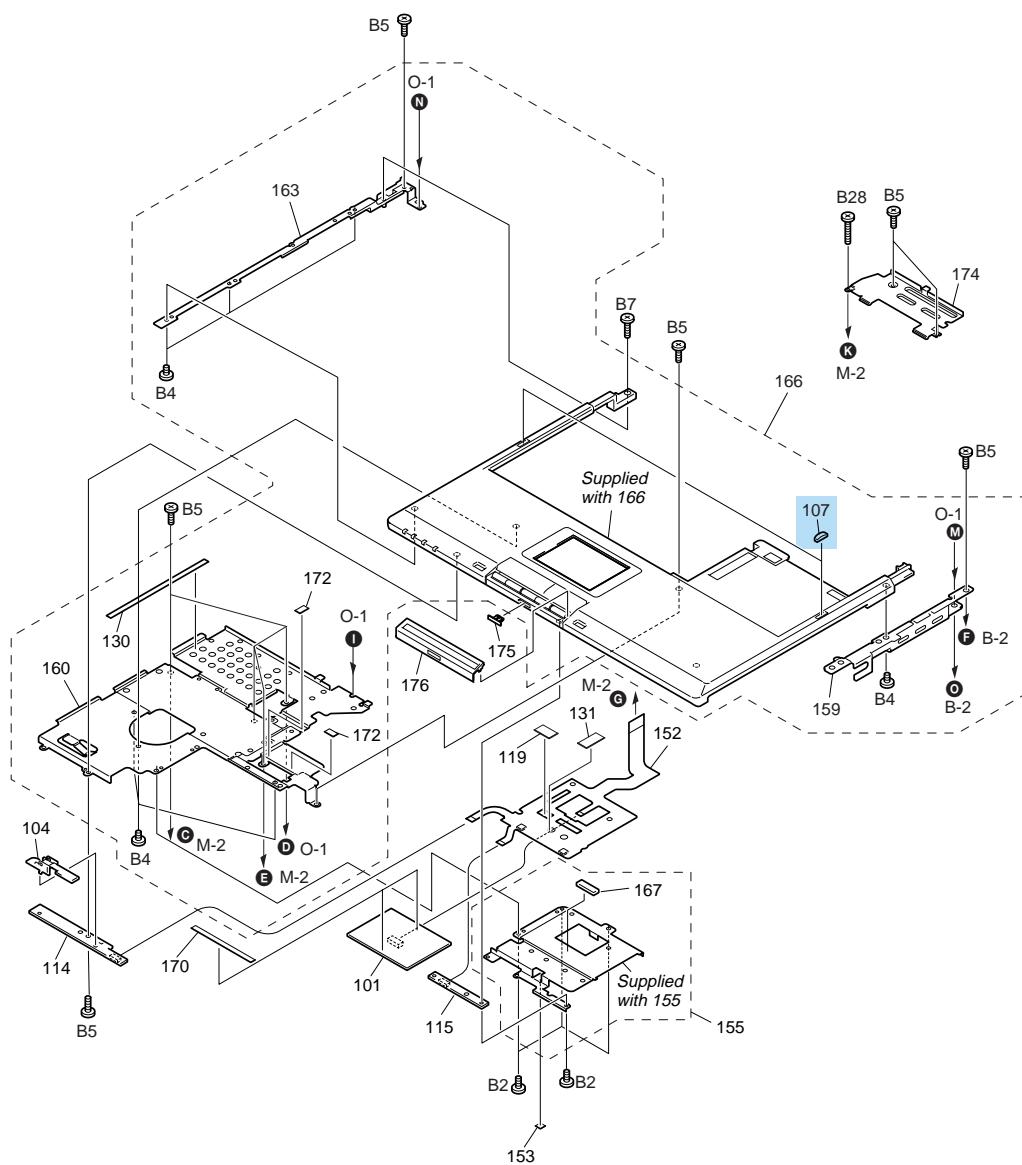
Ref.No.	Part No.	Description
101	1-796-319-41	PAD, TOUCH
102	A-8068-665-A	TOUCH PAD FPC
103		CAPTON TAPE
104	X-4625-918-1	ASSY LATCH DETECTOR
105	X-4626-473-1	ASSY TP BRACKET
106	4-676-956-01	
107	4-668-288-11	& GASKET T/P CONTACT
108	4-676-948-01	CUSHION PALM
109	4-679-482-01	RUBBER STOPPER
110	X-4626-472-1	BRACKET PALMREST R
111	4-680-674-01	ASSY SHIELDING PALMREST
112	4-680-670-01	
113	4-679-481-02	
114	A-8067-971-A \$	FOIL KB
115	A-8067-972-A \$	FERRITE CORE SPONGE
119	4-676-954-01	BRACKET PALMREST L
121	X-4626-471-1	COMPLETE PWB LEX-47
122	4-679-478-01	
131	4-676-955-01	COMPLETE PWB SWX-142
132	4-679-484-01	
133	4-680-193-01	ADHESIVE TP
134	4-682-622-01	ASSY SHIELDING PALMREST
221	4-676-461-01	PLATE PALMREST
B2	4-641-726-11	MYLAR TP
B4	4-641-726-81	REINFORCE PALMREST
B5	4-641-726-41	
B24	4-641-726-21	
B26	4-644-637-01	
B27	4-678-226-01	GASKET KB (4W*2.5H*20L)
		SHIELD PALMREST
		LAN GASKET 20X5X5
		SCREW (M2), SPECIAL HEAD
		SCREW (2X14) ←
		M2 SCREW

- This parts list contains two different types of parts.
The first type is the parts that are common to all models.
The other type is the parts that are different depending on each model.
- The parts to which (W) is added after the part Description are used in the models in which the Wireless LAN is installed.
- The parts to which (TV) is added after the part Description are used in the models in which the TV Tuner is installed.

・この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。
・部品名称のあとに (W) がつくのは、ワイヤレスラン搭載モデル用の部品です。
・部品名称のあとに (TV) がつくのは、TV チューナー搭載モデル用の部品です。

Ref.No.	Part No.	Description	GR198V/P	J	GR177V/P	AM	EU	AO
116	X-4626-666-1	ASSY PALMREST HOUSING						
	X-4626-665-1	ASSY PALMREST HOUSING (TV)	●	●	●	●	●	
125	4-673-722-01	SLIDE WIRELESS KNOB (W)	●	●	●	●	●	
126	X-4625-908-1	ASSY ESCUSHION (TV/W)	●	●	●	●	●	
	X-4626-219-1	ASSY ESCUSHION N-TV (W)		●	●	●	●	
4-673-719-11	ESCUSHION W/O WIRELESS			●	●	●	●	
4-673-719-01	ESCUSHION W/O WIRELESS(TV)		●		●	●	●	●

P-2. Palmrest (15-inch Model)



Ref.No.	Part No.	Description
101	1-796-319-41	PAD, TOUCH
104	X-4625-918-1	ASSY LATCH DETECTOR
107	4-668-288-11	CUSHION PALM
114	A-8067-971-A \$	COMPLETE PWB LEX-47
115	A-8067-972-A \$	COMPLETE PWB SWX-142
119	4-676-954-01	& ADHESIVE TP
130	4-671-203-01	SHEET SHIELDING PALMREST
131	4-676-955-01	MYLAR TP
152	A-8116-248-A	TP FPC ASSY SR R2.0
153	4-673-995-01	T/P-PW BD GASKET
155	4-673-798-01	TP BRACKET
159	4-673-797-01	BRACKET PALMREST R
160	X-4625-928-1	PALMREST SHIELDING L ASSY
163	4-673-796-01	BRACKET PALMREST L
167	4-673-994-01	T/P GASKET
170	4-677-676-01	TOUCH PAD ADHESIVE
172	4-677-673-01	SPACER BKT M
174	X-4625-929-1	PALMREST SHIELDING R ASSY
B2	4-641-726-11	SCREW (M2), SPECIAL HEAD
B4	4-641-726-81	SCREW (M2), SPECIAL HEAD
B5	4-641-726-41	SCREW (M2), SPECIAL HEAD
B7	4-645-214-71	GRIP, M2
B28	4-644-899-21	M2-SCREW

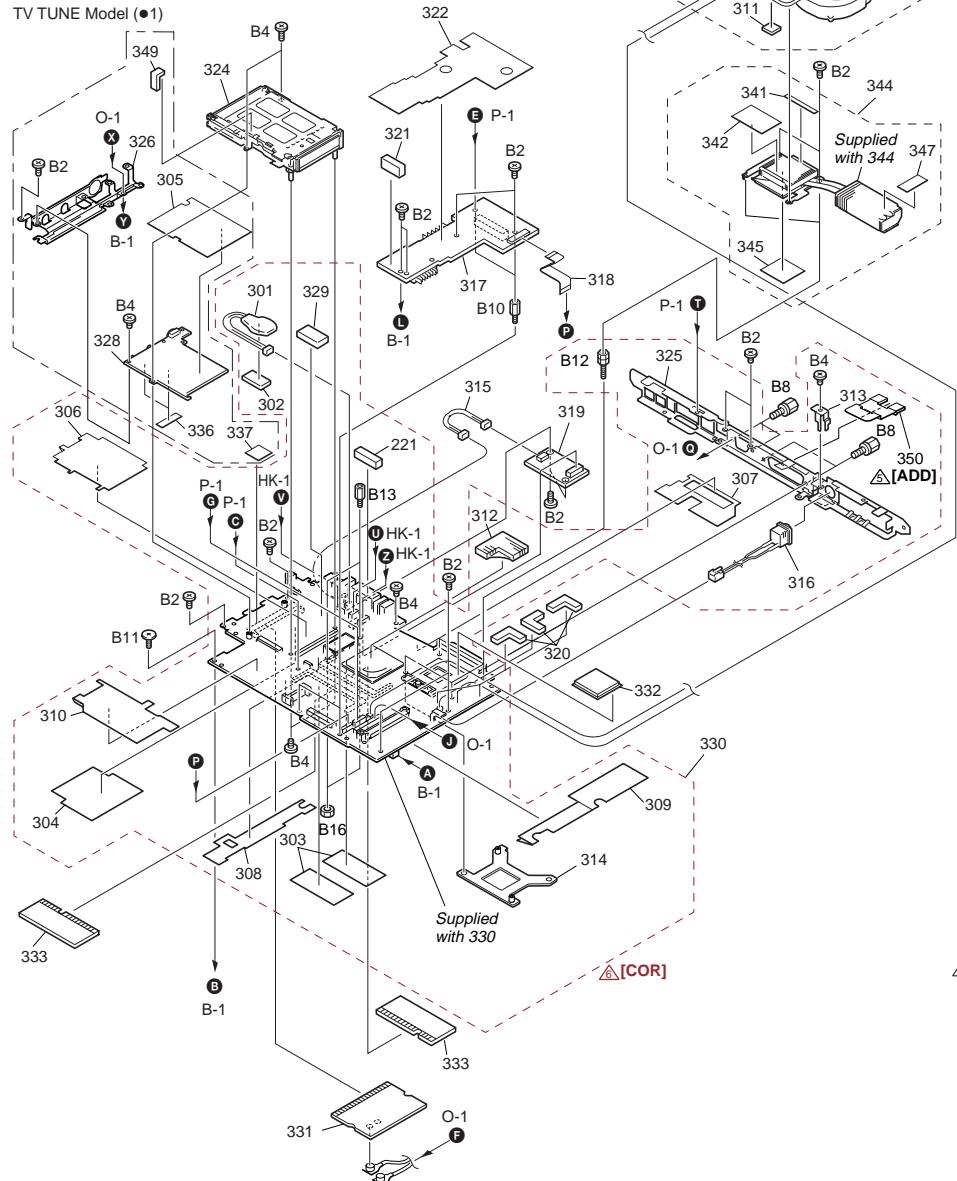
Ref.No. Part No.	Description	J		EU		
		GRT55FB	GRT5xF*	GRT5xF/P*	GRT915M	GRT995MP
166 X-4625-914-1	ASSY PALMREST HOUSING	•	•	•	•	•
X-4625-945-1	ASSY PALMREST HOU (TV)	•	•	•	•	•
175 4-673-683-01	SLIDE WIRELESS KNOB (W)	•	•	•	•	•
176 4-673-701-01	ESCUSHION W/O WIRELESS (TV)(15)	•	•	•	•	•
4-693-701-11	ESCUSHION W/O WIRELESS (15)	•	•	•	•	•
155	ASSY ESCUSHION N-TV(W)(15)					

△[COR] X-4626-225-1

- This parts list contains two different types of parts.
The first type is the parts that are common to all models.
The other type is the parts that are different depending on each model.
- The parts to which (W) is added after the part Description are used in the models in which the Wireless LAN is installed.
- The parts to which (TV) is added after the part Description are used in the models in which the TV Tuner is installed.
- この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。
- 部品名称のあとに (W) がつくのは、ワイヤレスラン搭載モデル用の部品です。
- 部品名称のあとに (TV) がつくのは、TV チューナー搭載モデル用の部品です。

Confidential

M-1. Main Board (16-inch Model)

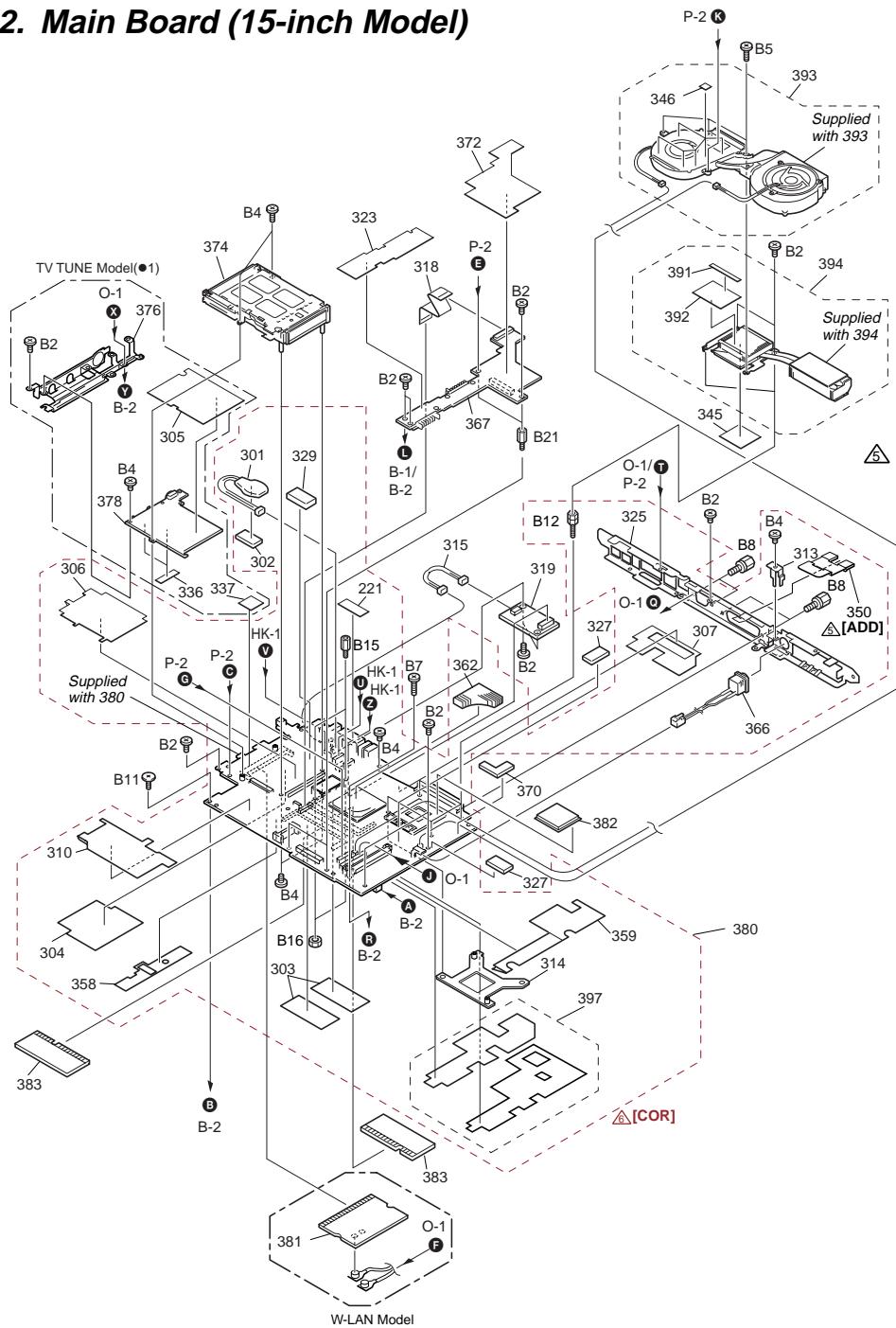


Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
221	4-676-461-01	LAN GASKET 20X5X5	321	4-677-786-01	SR+ GASKET CHARGER BOARD
301	9-885-033-67	BATTERY, LITHIUM STORAGE	322	4-680-188-01	SHEET PWS PCB
302	4-642-711-11	SHEET (BATTERY), ADHESIVE	325	X-4626-474-1	ASSY BRACKET IO
303	4-668-307-01	SHEET DIMM	329	4-677-674-02	SPONGE CRYSTAL
304	4-668-308-01	SHEET MINI PCI	341	4-680-675-01	GASKET FIN
306	4-673-997-01	SHEET PC CARD	342	4-680-671-01	FIN MYLAR
307	4-673-999-01	SHEET PORT	343	A-8117-948-A \$	ASSY FAN UNIT
308	4-680-187-01	SHEET DIMM SIDE	345	4-671-241-01	SHEET THERMAL (STH)
309	4-680-186-01	SHEET HDD	346	4-677-182-01	FAN PLATE MYLAR
310	4-676-421-01	SHEET DRIVE	347	4-682-346-01	RHE FIN MYLAR
311	4-680-677-01	CMOS PAD M	348	4-682-160-01	SHEET FIN SCREW
312	4-680-669-01	NORTH BRIDGE HEATSINK	350	4-676-505-01	SPRING M BKT IO ← [ADD]
* 313	4-673-811-01	DC IN HOLDER	B2	4-641-726-11	SCREW (M2), SPECIAL HEAD
* 314	X-4625-932-1	CPU BACK PLATE ASSY	B4	4-641-726-81	SCREW (M2), SPECIAL HEAD
315	9-885-033-65	HARNESS (2P)	B5	4-641-726-41	SCREW (M2), SPECIAL HEAD
316	A-8068-667-A	DC, HARNESS	B8	4-635-966-01	SCREW (HEX)
317	A-8068-558-A \$	COMPLETE PWB PWS-34	B10	4-680-676-01	SPACER (PWS), H=8.2
318	9-885-033-23	CABLE (30P), FLEXIBLE FLAT	B11	4-654-387-01	SCREW (MBX)
319	1-761-606-13 \$ #	CARD, MODEM	B12	4-676-485-01	SPACER (CPU), H=5
320	4-680-673-01	CMOS THERMAL PAD	B13	4-677-686-01	SPACER (PWS) H=8.0
			B16	7-622-205-05	NUT (M2 TYPE2), HEXAGON

Ref.No. Part No.	Description	GRT99V/P	J	GRT77V/P	GRT9XV/P*	GRT360ZG	AM	GRT390ZP*	GRT360ZG	GRT390ZP*	EU	GRT996ZP	GRT916Z	GRT996VP	GRT916V	AO
305 4-674-003-01	TUNER BD MYLAR(TV)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
324 A-8068-664-A	CONNECTOR PC CARD(2 SLOT)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
9-885-033-66	CONNECTOR PC CARD(1 SLOT)(TV)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
●1 326 X-4626-477-1	ASSY BRACKET IO LEFT (TV)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
328 A-8068-275-A	COMPLETE PWB ENX-23 (U)(TV)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
A-8068-559-A	COMPLETE PWB MBX-104	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
330 A-8118-883-A \$ #	COMPLETE PWB MBX-104 (TV)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
A-8118-884-A \$ #	COMPLETE PWB MBX-104 (TV)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
331 1-761-784-22 \$ #	CARD, WIRELESS LAN(W)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1-761-784-32 \$ #	CARD, WIRELESS LAN(W)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
1-761-786-11 \$ #	CARD, WIRELESS LAN(W)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
●2 332 6-704-614-01	IC RH80532GC049512SL6VB (P4-M 2.2)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
6-704-615-01	IC RH80532GC056512SL6VC (P4-M 2.4)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
6-704-665-01	IC RK80532PE072512SL6FP (P4 2.8)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
6-704-666-01	IC RK80532PE067512SL6PE (P4 2.6)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
6-704-957-01	IC RH80532NC049256SL73Y (C 2.2)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
6-705-187-01	IC RH80532GC064512SL6WZ (P4-M 2.6)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
6-705-840-01	IC RK80532HE072512SL77N (MP4-2.8)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
6-803-849-01	IC RK80532HE083512SL77P (MP4-3.0)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
6-803-979-01	IC RK80532GE072512SL725 (MP4-2.8)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
6-803-981-01	IC RK80532HE088512SL77R (MP4-3.2)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
333 6-705-094-01	IC RK80532HE088512SL77R (MP4-3.2)	●X2	●	●	●	●	●	●	●	●	●	●	●	●	●	●
6-705-097-01	IC MYS64D64020GBDL-6-B (512MB)	●X1	●	●	●	●	●	●	●	●	●	●	●	●	●	●
6-705-343-01	IC EBD11UD8ABDA-6B (1024MB)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
336 4-677-894-02	BUSTER RAID TUNER(TV)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
337 4-677-893-01	BUSTER RAID MBX(TV)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
●2 344 X-4626-475-1 \$	ASSY FAN STH	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
X-4626-476-1 \$	ASSY FAN MOBILE	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
349 4-682-149-01	GASKET CARDBUS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

- This parts list contains two different types of parts. The first type is the parts that are common to all models. The other type is the parts that are different depending on each model.
- The parts to which (TV) is added after the part Description are used in the models in which the TV Tuner is installed.
- 1 For the BRACKET IO LEFT of the model without Tuner, refer to the Bottom.
- 2 The FIN MODULE in use is different depending on the CPU.
- For the parts of Ref. 332 and Ref. 344, select a combination of the same type (either type a or type b) of Ref. 332 and Ref. 344.
 - この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。
 - 部品名称のあとに (TV) がつくのは、TV チューナー搭載モデル用の部品です。
 - 1 TV チューナーのないモデルの BRACKET IO LEFT は、Bottom を参照ください。
 - 2 CPU によって、使用する FIN MODULE が異なります。
- Ref. 332 と Ref. 344 は、同じタイプ (a or b) の部品を組み合わせて使ってください。

M-2. Main Board (15-inch Model)



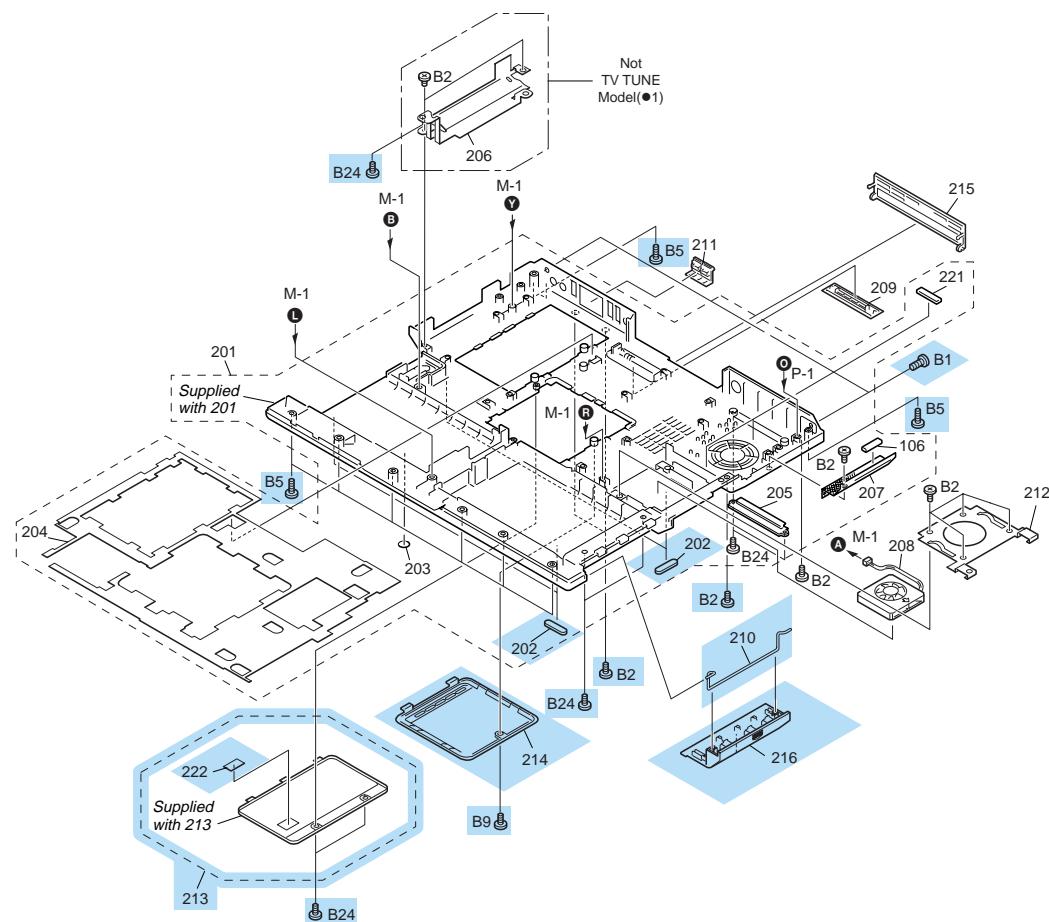
Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
221	4-676-461-01	LAN GASKET 20X5X5X	359	4-674-001-01	SHEET HDD
301	9-885-033-67	BATTERY, LITHIUM STORAGE	* 362	4-673-982-01	NORTH BRIDGE HEATSINK
302	4-642-711-11	SHEET (BATTERY), ADHESIVE	366	9-885-033-63	DC, HARNESS
303	4-668-307-01	SHEET DIMM	367	A-8067-969-A	COMPLETE PWB PWS-27
304	4-668-308-01	SHEET MINI PCI	370	4-674-004-01	CMOS PAD U
306	4-673-997-01	SHEET PC CARD	372	4-674-007-01	SHEET PWS 1
307	4-673-999-01	SHEET PORT	391	4-677-183-01	FIN GASKET
310	4-676-421-01	SHEET DRIVE	392	4-677-668-01	FIN MYLAR
* 313	4-673-811-01	DC IN HOLDER	393	A-8115-390-A	ASSY FAN UNIT
* 314	X-4625-932-1	CPU BACK PLATE ASSY	397	4-680-129-01	MB HEAT FOIL MYLAR
315	9-885-033-65	HARNESS (2P)	B2	4-641-726-11	SCREW (M2), SPECIAL HEAD
318	9-885-033-72	CABLE (30P), FLEXIBLE FLAT	B4	4-641-726-81	SCREW (M2), SPECIAL HEAD
319	1-761-606-13	CARD, MODEM	B5	4-641-726-41	SCREW (M2), SPECIAL HEAD
323	4-674-008-01	SHEET PWS 2	B7	4-645-214-71	GRIP, M2
327	4-674-005-01	CMOS PAD L	B8	4-635-966-01	SCREW (HEX)
329	4-677-674-02	SPONGE CRYSTAL	B11	4-654-387-01	SCREW (MBX)
345	4-671-241-01	SHEET THERMAL (STH)	B12	4-676-485-01	SPACER (CPU), H=5
346	4-677-182-01	FAN PLATE MYLAR	B15	4-654-385-01	SPACER (VIF)
350	4-676-505-01	SPRING M BKT IO	B16	7-622-205-05	NUT (M2 TYPE2), HEXAGON
358	4-674-000-01	SHEET DIMM SIDE	B21	4-654-386-01	SPACER (PWS)

Ref.No.	Part No.	Description	EU				
			GRT55FB	GRT5xF*	GRT5xF/P*	GRT915M	GRT995MP
305	4-674-003-01	TUNER BD MYLAR(TV)	●	●	●	●	●
325	X-4625-954-1	ASSY BRACKET I/O (15)					
383	6-705-100-01	IC HYMD232M646C6-J(DDR 256MB)	●X1	●	●	●X2	●X2
	A-8068-348-A	COMPLETE PWB MM-10A (DDR 512MB)					
336	4-677-894-02	BUSTER RAID TUNER(TV)	●	●	●		
337	4-677-893-01	BUSTER RAID MBX(TV)	●	●	●		
374	9-885-033-66	CONNECTOR PC CARD (1 SLOT) (TV)	●	●	●		
	9-885-033-62	CONNECTOR PC CARD (2 SLOT)	●	●	●		
●1	376 X-4625-935-1	ASSY BRACKET IO LEFT (1) (15)	●	●	●		
378	A-8068-559-A	COMPLETE PWB ENX-23 (J)(TV)	●	●	●		
380	A-8068-515-A	COMPL MBX-86 (2) (15) (S)	●	●	●	●	●
	A-8068-517-A	COMPL MBX-86 (2T) (15) (S) (TV)	●	●	●		
381	1-761-784-22	\$ # CARD, WIRELESS LAN(W)					
●2	382 6-704-133-01	IC RK80532PE072512SL654(P4 2.8)	●a	●a	●	●	●
	6-704-666-01	IC RK80532PE067512SL6P6(M4 2.66)	●a	●a	●		
	6-705-714-01	IC RH80532NC056256SL75J (C 2.4)	●	●b	●b		
●2	394 4-673-983-01	\$ FIN MODULE STH	●a	●a	●	●	
	4-673-984-01	\$ FIN MODULE MOBILE	●	●b	●b		

- This parts list contains two different types of parts. The first type is the parts that are common to all models. The other type is the parts that are different depending on each model.
- The parts to which (TV) is added after the part Description are used in the models in which the TV Tuner is installed.
- 1 For the BRACKET IO LEFT of the model without Tuner, refer to the Bottom.
- 2 The FIN MODULE in use is different depending on the CPU.
 - For the parts of Ref. 382 and Ref. 394, select a combination of the same type (either type a or type b) of Ref. 382 and Ref. 394.
 - この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。
 - 部品名称のあとに (TV) がつくのは、TV チューナー搭載モデル用の部品です。
 - 1 TV チューナーのないモデルの BRACKET IO LEFT は、Bottom を参照ください。
 - 2 CPU によって、使用する FIN MODULE が異なります。
 - Ref. 382 と Ref. 394 は、同じタイプ (a or b) の部品を組み合わせて使ってください。

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B-1. Bottom (16-inch Model)



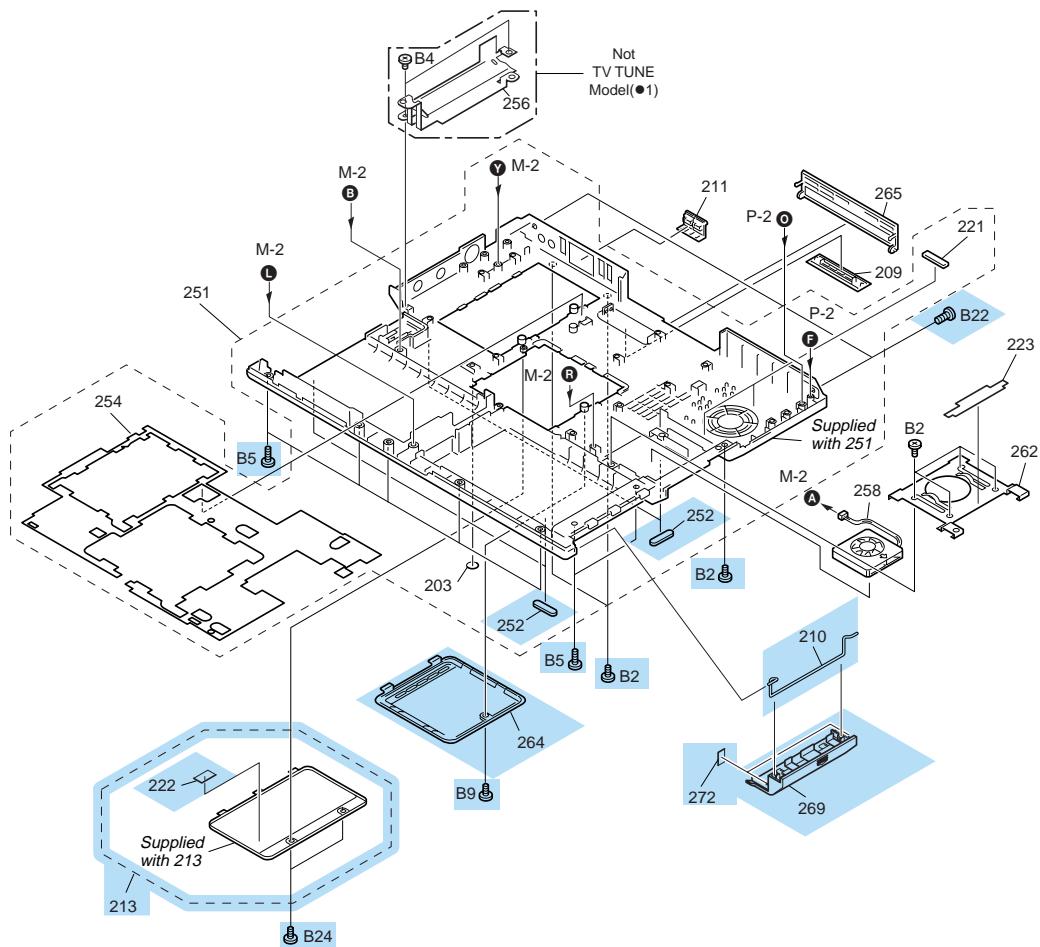
Ref.No.	Part No.	Description
106	4-676-956-01	GASKET T/P CONTACT
202	4-682-159-01	FOOT FRONT
203	4-654-380-41	CAP BAY
204	4-680-184-01	MB SHIELDING MYLAR
205	X-4626-510-1	ASSY DOOR HEATSINK CLEAN
207	4-679-495-01	BOTTOM NET R
208	A-8118-355-A	KME FAN-3
209	4-654-379-21	COVER (PORT)
210	4-668-299-01	DOOR BATTERY SPRING
211	4-673-986-01	CAP ETHERNET
212	X-4626-470-1	ASSY FAN-S SHIELDING
213	X-4626-463-1	ASSY DOOR MDC
214	X-4626-418-1	ASSY DOOR DIMM
215	X-4626-419-1	ASSY DOOR IO
216	4-679-463-01	DOOR BATTERY
221	4-676-461-01	LAN GASKET 20X5X5
222	4-677-682-01	WIRELESS LAN GASKET
B1	4-654-811-21	SCREW M3
B2	4-641-726-11	SCREW (M2), SPECIAL HEAD
B5	4-641-726-41	SCREW (M2), SPECIAL HEAD
B9	4-672-834-31	SCREW,+B EG GRIP
B24	4-641-726-21	SCREW (M2), SPECIAL HEAD

Ref.No. Part No.	Description	J	GRT99V/P	GRT77V/P	GRT9V/A*	GRT9XV/P*	AM	GRT380ZG	GRT360ZG	GRT390ZP*	EU	GRT996VP	GRT916V	AO
201 X-4626-415-1	ASSY HOUSING BOTTOM	●	●	●	●	●	●	●	●	●	●	●	●	●
X-4626-423-1	ASSY HOUSING BOTTOM (TV)			●	●	●								
●1 206 4-679-488-01	ASSY BRACKET IO LEFT				●	●	●	●	●	●	●	●	●	●

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- The parts to which (TV) is added after the part Description are used in the models in which the TV Tuner is installed.
- 1 For the BRACKET IO LEFT of the Tuner model, refer to the Main Board.
- この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。
- 部品名称のあとに (TV) がつくのは、TV チューナー搭載モデル用の部品です。
- 1 TV チューナー モデルの BRACKET IO LEFT は、Main Board を参照ください。

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B-2. Bottom (15-inch Model)

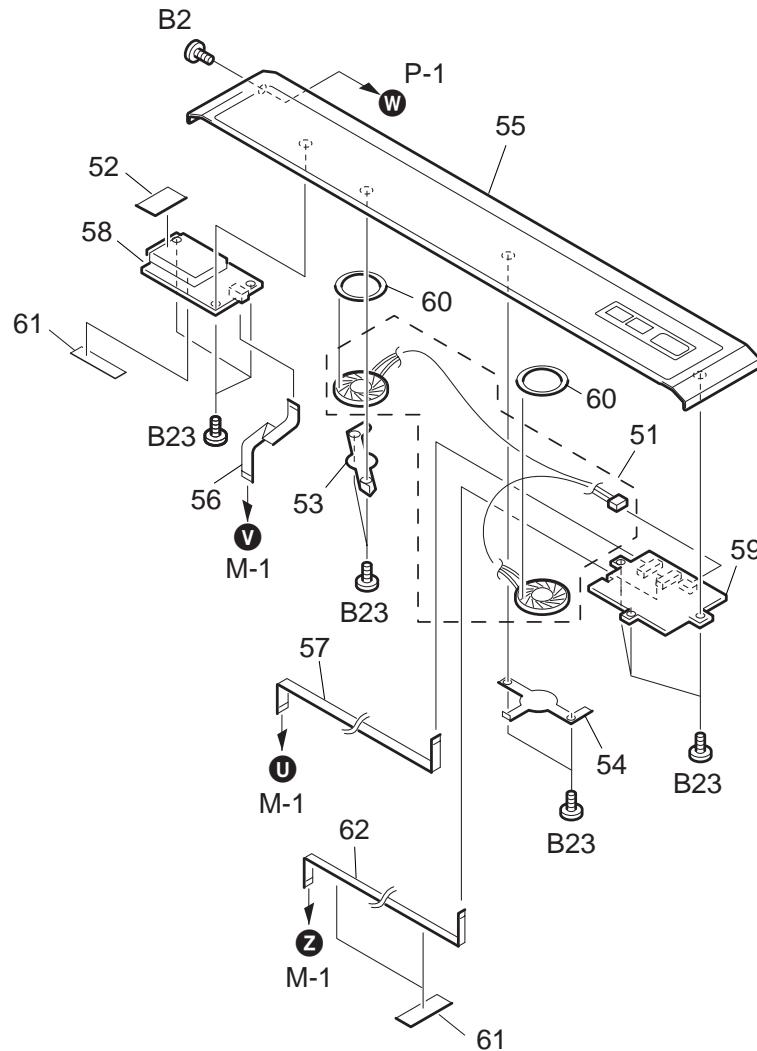


Ref.No.	Part No.	Description
203	4-654-380-41	CAP BAY
209	4-654-379-21	COVER (PORT)
210	4-668-299-01	& DOOR BATTERY SPRING
211	4-673-986-01	CAP ETHERNET
213	X-4626-463-1	& DOOR MDC ASSY
221	4-676-461-01	LAN GASKET 20X5X5X
222	4-677-682-01	& WIRELESS LAN GASKET
223	4-679-376-01	FAN S SHD MYLAR
252	4-668-294-11	& FOOT FRONT
254	4-673-888-01	SHIELDING MYLAR
258	A-8115-838-A	ASSY 3RD FAN
*	X-4625-933-1	3RD FAN SHIELDING ASSY
264	X-4625-917-1	& ASSY DOOR DIMM
265	X-4625-919-1	ASSY DOOR IO
269	X-4626-243-1	& ASSY DOOR BATTERY
272	4-677-681-01	& SPONGE DOOR BATTERY
B2	4-641-726-11	& SCREW (M2), SPECIAL HEAD
B5	4-641-726-41	& SCREW (M2), SPECIAL HEAD
B9	4-672-834-31	& SCREW,+B EG GRIP
B22	4-654-811-01	& SCREW M3
B24	4-641-726-21	& SCREW (M2), SPECIAL HEAD

Ref.No.	Part No.	Description	J	EU
251	X-4626-444-1	ASSY HOUSING BOTTOM (TV)(15)	●	GRT55FB
	X-4626-405-1	ASSY HOUSING BOTTOM (15)	●	GRT5xFP*
● 256	4-673-804-01	BRACKET LO LEFT	●	GRT5xFP*
	B4-641-776-81	SCRFW (M2) SPECIAL HEAD	●	GRT95M
				GRT95MP

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The other type is the parts that are different depending on each model.
- The parts to which (TV) is added after the part Description are used in the models in which the TV Tuner is installed.
- 1 For the BRACKET IO LEFT of the Tuner model, refer to the Main Board.
 - この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。
 - 部品名称のあとに (TV) がつくのは、TV チューナー搭載モデル用の部品です。
- 1 TVチューナーモデルのBRACKET IO LEFTは、Main Boardを参照ください。

HK-1. Hood Keyboard



Ref.No.	Part No.	Description
53	4-673-789-01	SPEAKER HOLDER L
56	9-885-033-70	CABLE (10P), FLEXIBLE FLAT
57	9-885-033-71	CABLE (11P), FLEXIBLE FLAT
58	A-8068-689-A \$	COMPLETE PWB IFX-328
59	A-8068-274-A \$	COMPLETE PWB SWX-155
60	4-677-458-01	SPEAKER RING GULE
61	<u>A-8116-337-A</u>	CAPTON TAPE (7X20)
62	A-8116-337-A	CABLE (8P) FLEXIBLE FLAT
B2	4-641-726-11	& SCREW (M2), SPECIAL HEAD
B23	4-639-112-01	SCREW M2X4

Ref.No. Part No.	Description									
51 A-8116-371-A	GRT99V/P	GR77V/P	GR755FB	GR75xF*	GR75xF/P*	GR79xV*	GR739xV/P*	GR1380ZG	GR1360ZG	GR1390ZP*
A-8116-869-A	●	●	●	●	●	●	●	●	●	●
52 4-671-590-01	●	●	●	●	●	●	●	●	●	●
4-680-191-01	●	●	●	●	●	●	●	●	●	●
54 4-679-084-01	●	●	●	●	●	●	●	●	●	●
4-679-081-01	●	●	●	●	●	●	●	●	●	●
55 X-4626-417-1	●	●	●	●	●	●	●	●	●	●
X-4626-393-1	●	●	●	●	●	●	●	●	●	●

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[MA1] [MA1] [MA1] [MA1] [MA1]

[MA1]

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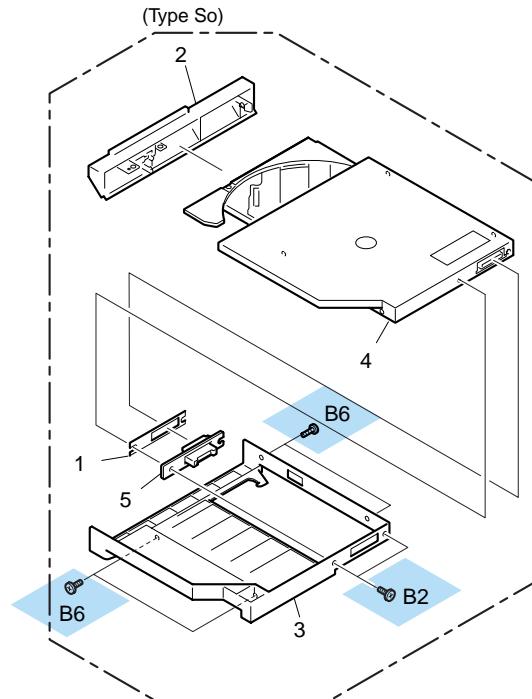
PCG-GRT55F/GRT5xF/GRT77V/GRT99V/GRT9xV (J)

PCG-GRT360ZG/GRT380ZG/GRT390Z/GRT390ZP (AM)

PCG-GRT915M/GRT916V/GRT916Z/GRT995MP/GRT996VP/GRT996ZP (EU)

PCG-GRT50ZCP (AO)

D-1. Optical Drive

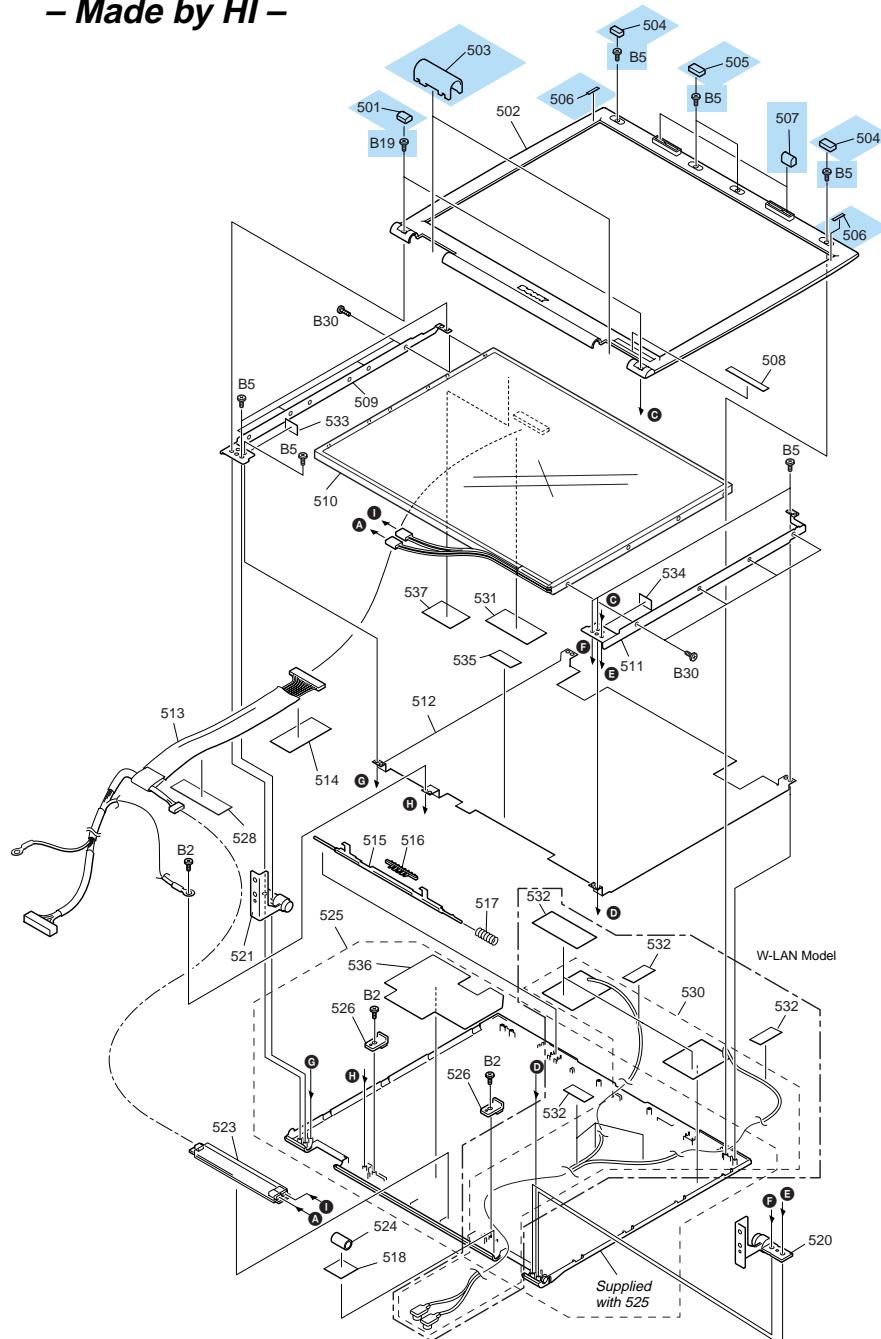


<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>
1	4-654-837-01	SHEET BAY BOARD
5	A-8067-975-A \$	COMPLETE PWB CNX-215
B2	4-641-726-11	& SCREW (M2), SPECIAL HEAD
B6	4-656-703-01	& SCREW M2

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L-1. LCD 16-inch UXGA, SXGA (Clear Black LCD)

– Made by HI –



Ref.No.	Part No.	Description
501	4-674-542-01	& COVER SCREW LOWER
502	A-8115-903-A	ASSY HOUSING BEZEL/HI
503	4-673-716-01	& COVER HINGE
504	4-674-540-01	& COVER SCREW UPPER
505	4-674-541-01	& COVER SCREW MIDDLE
506	4-672-201-11	& CUSHION BEZEL
507	4-674-539-01	& CUSHION LATCH
* 509	4-673-750-01	BRACKET LCD HI L
* 511	4-673-749-01	BRACKET LCD HI R
512	4-676-870-01	SHIELD DISPLAY
513	9-885-031-89	LCD HARNESS
514	4-677-679-01	FOIL LCD HARNESS
515	4-673-727-01	LATCH HONTAI
516	4-673-728-01	LATCH BUTTON
517	4-671-640-01	GT2 SPRING_LATCH
518	4-673-316-01	GT2 CUSHION WL CABLE
520	4-673-736-02	HINGE R
521	4-673-735-02	HINGE L
523	1-478-040-11	INVERTER UNIT
525	A-8115-984-A	ASSY HOUSING DISPLAY 16 (SBL) (S)
526	4-673-729-01	LCD HOOK BASE HI
528	4-672-403-01	COPPER TAPE LCD ED
531	4-680-130-01	CU-FOIL WITH MYLAR
533	4-676-181-01	SHEET BRACKET LCD L HIT
534	4-676-182-01	SHEET BRACKET LCD R HIT
535	4-670-396-01	SHEET COPPER (PLATE HEATSINK)
536	4-676-932-01	PLATE INVERTER
B2	4-641-726-11	SCREW (M2), SPECIAL HEAD
B5	4-641-726-41	& SCREW (M2), SPECIAL HEAD
B19	4-641-726-91	& SCREW (M2), SPECIAL HEAD
B30	4-636-559-01	SCREW (M2.5X4)

Ref.No.	Part No.	Description	J	AM	EU	AC
508	4-681-719-01	LABEL ID	●	GRT98V/P	GRT77V/P	GRT96V/P
	4-681-719-11	LABEL ID	●		GRT91V/P*	
	4-681-662-11	LABEL ID			GRT91V/*	
	4-681-662-21	LABEL ID			GRT92V/P*	
	4-681-728-11	LABEL ID			GRT380ZG	GRT390ZP*
	4-681-728-21	LABEL ID			GRT360ZG	GRT390Z*
	4-681-729-11	LABEL ID				GRT96ZP
	4-681-733-11	LABEL ID				GRT916Z
	4-681-733-21	LABEL ID				GRT996V/P
	4-681-733-31	LABEL ID				GRT916V
	4-681-733-41	LABEL ID				GRT502CP
	4-681-736-01	LABEL ID	●			
	4-681-736-11	LABEL ID	●			
	4-681-736-21	LABEL ID	●			
	4-681-736-31	LABEL ID	●			
510	A-8115-721-A	\$ # LCD UNIT (16TFT-SXGA+HI)	●	●	●	●
	A-8115-722-A	\$ # LCD UNIT (16TFT-UXGA-HI)(S)	●	●	●	●
524	4-672-196-01	TUBE WL CABLE	●	●	●	●
530	1-754-295-12	ANTENNA, FILM (L AND R)	●	●	●	●
532	_____	FILAMENT TAPE	●	●	●	●
537	4-680-580-01	BUSTER/AD/W/L AN	●	●	●	●

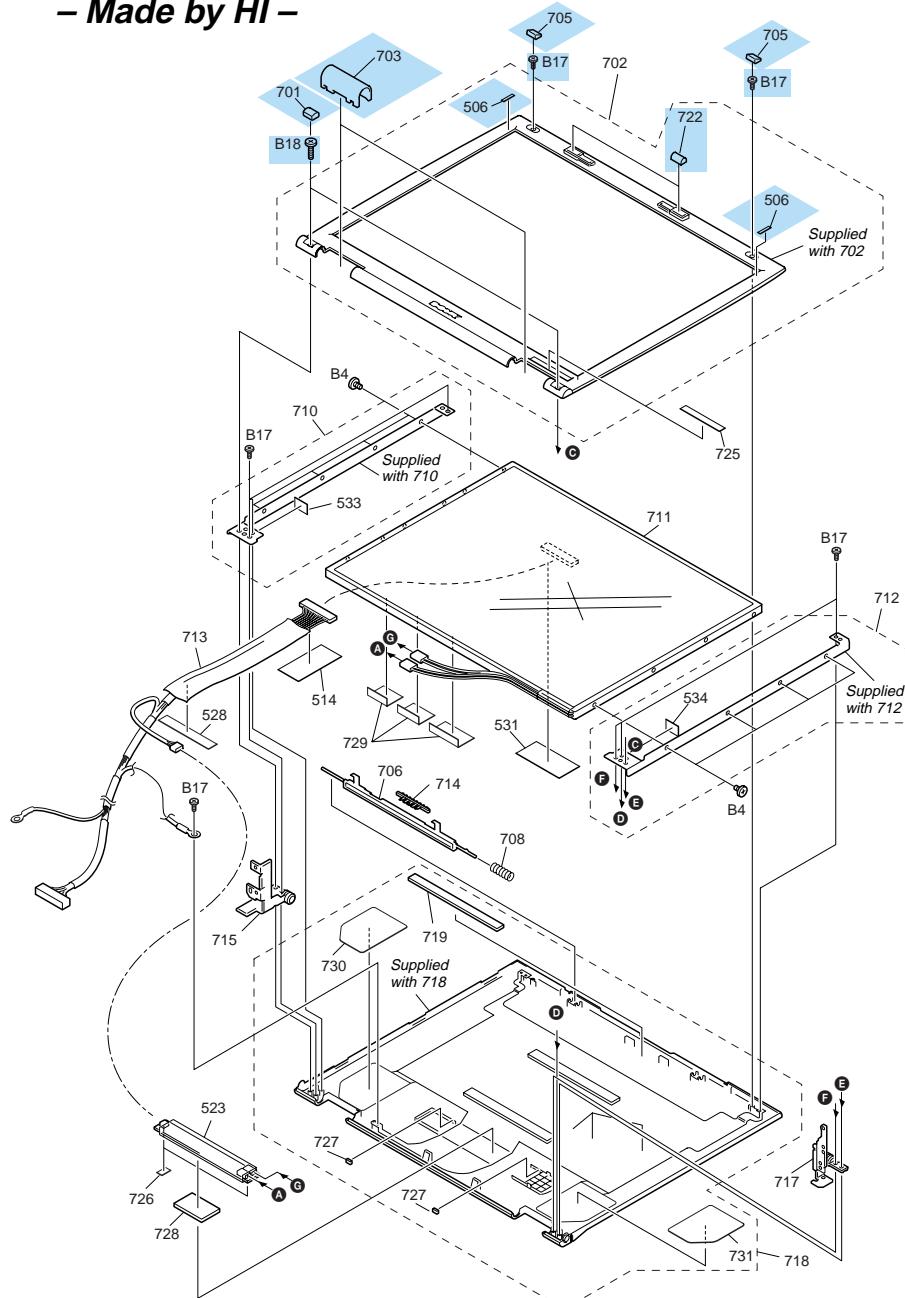
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4-10

L-2. LCD 15-inch XGA (Clear Black LCD)

– *Made by HI* –



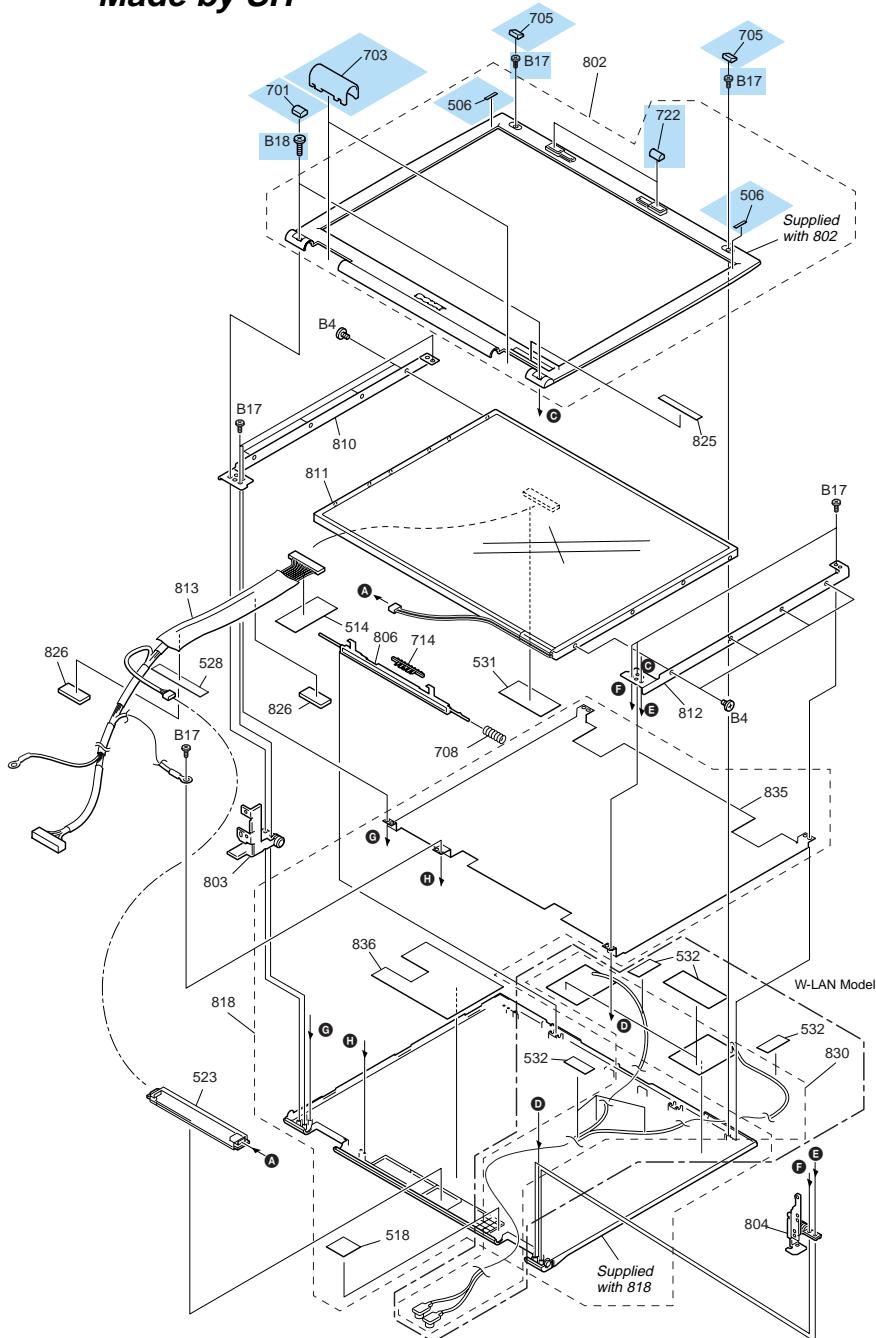
Ref.No.	Part No.	Description
506	4-672-201-11	CUSHION BEZEL
514	4-677-679-01	FOIL LCD HARNESS
523	1-478-040-11	INVERTER UNIT
528	4-672-403-01	COPPER TAPE LCD ED
531	4-680-130-01	CU-FOIL WITH MYLAR
533	4-676-481-01	SHEET BRACKET LCD L HIT
534	4-676-482-01	SHEET BRACKET LCD R HIT
701	4-672-197-11	COVER SCREW LOWER
702	A-8115-900-A	ASSY HOUSING BEZEL 15 HIT
703	4-667-073-11	COVER HINGE
705	4-672-198-11	COVER SCREW UPPER
706	4-673-710-01	LATCH HONTAI
708	4-672-199-01	SPRING (LATCH), COMPRESSION
710	X-4626-189-1	ASSY BRACKET LCD L HIT
711	A-8115-792-A	ASSY LCD 15XGA(HI)(S)
712	X-4626-190-1	ASSY BRACKET LCD R HIT
713	9-885-031-25	LCD HARNESS
714	4-670-668-11	LATCH BUTTON
715	4-673-807-11	HINGE L
717	4-673-808-11	HINGE R
718	A-8115-897-A	ASSY DISPLAY HOUSING 15 (SBR) (S)
719	4-676-424-01	SHEET DISPLAY HOUSING HIT
722	4-672-202-11	CUSHION LATCH
726	4-676-478-01	SHEET DISPLAY HOUSING HIT 2
727	4-676-479-01	SHEET DISPLAY HOUSING HIT 3
728	4-676-422-01	SHEET PLATE LCD
729	4-676-480-01	FOIL LCD HIT
730	4-678-912-01	SHEET PLATE LCD L
731	4-678-911-01	SHEET PLATE LCD R
B4	4-641-726-81	SCREW (M2), SPECIAL HEAD
B17	4-641-726-61	SCREW (M2), SPECIAL HEAD
B18	4-664-453-21	SCREW (M2X7), SPECIAL HEAD

Ref.No.	Part No.	Description	GRT555FB	GRT51FP*	GRT51F*	GRT52FP*
△ [ADD]	725 4-681-719-21	LABEL ID	●			
△ [ADD]	4-681-736-41	LABEL ID		●		
△ [ADD]	4-681-736-51	LABEL ID		●		
△ [ADD]	4-681-736-61	LABEL ID			●	
△ [ADD]	4-681-736-71	LABEL ID				●

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L-3. LCD 15-inch XGA (Normal, High Brightness)

– Made by SH –



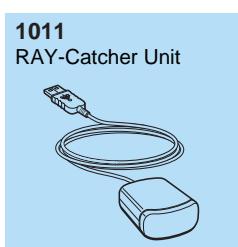
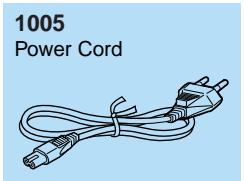
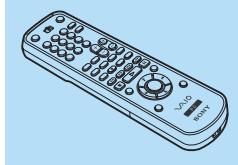
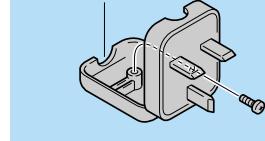
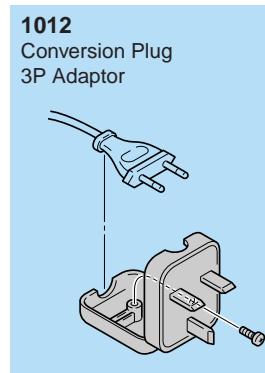
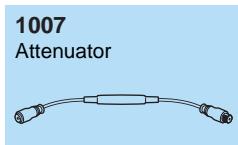
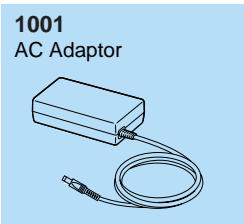
Ref.No.	Part No.	Description
506	4-672-201-11	& CUSHION BEZEL
514	4-677-679-01	FOIL LCD HARNESS
518	4-673-316-01	GT2 CUSHION WL CABLE
523	1-476-316-31	INVERTER UNIT
528	4-672-403-01	COPPER TAPE LCD ED
531	4-680-130-01	& CU-FOIL WITH MYLAR
701	4-672-197-11	& COVER SCREW LOWER
703	4-667-073-11	& COVER HINGE
705	4-672-198-11	& COVER SCREW UPPER
708	4-672-199-01	SPRING (LATCH), COMPRESSION
714	4-670-668-11	& LATCH BUTTON
722	4-672-202-11	& CUSHION LATCH
802	A-8115-899-A	ASSY HOUSING BEZEL 15(S)
803	4-673-807-02	HINGE L
804	4-673-808-02	HINGE R
806	4-670-669-11	LATCH HONTAI
* 810	4-671-115-02	BRACKET LCD 15 (L)
* 812	4-671-114-02	BRACKET LCD 15 (R)
818	A-8115-898-A	ASSY HOUSING DISPLAY 15(S)
826	4-677-683-01	DISPLAY GASKET
835	4-677-672-01	SHIELD DISPLAY
836	4-677-680-01	FOIL HOUSING DISPLAY
B4	4-641-726-81	SCREW (M2), SPECIAL HEAD
B17	4-641-726-61	& SCREW (M2), SPECIAL HEAD
B18	4-664-453-21	& SCREW (M2X7), SPECIAL HEAD

Ref.No. Part No.	Description	GRT51F/P*	GRT51F*	GRT52F/P*	GRT52F*	GRT915M	GRT995MP
532	FILAMENT TAPE						
811 A-8115-790-A	\$ # ASSY LCD 15XGA (SH)(S)	●	●	●	●	●	●
A-8113-853-A	\$ # ASSY LCD 15 (SH) GT2 (S)						
813 9-885-031-27	15XGA N/B HARNESS	●	●	●	●	●	●
9-885-031-28	15XGA N/B HARNESS	●	●	●	●	●	●
825 4-681-733-51	LABEL ID					●	
4-681-733-61	LABEL ID						
4-681-736-41	LABEL ID	●					
4-681-736-51	LABEL ID		●				
4-681-736-61	LABEL ID			●			
4-681-736-71	LABEL ID				●		
830 1-754-295-31	ANTENNA, FILM (L AND R)					●	●

[ADD] [ADD] [ADD] [ADD]

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A-1. Accessories



	Ref.No.	Part No.	Description	GRT99V/P	GRT77V/P	GRT55F/B	GRT5xF/P*	GRT5xF/P*	GRT9xV/*	GRT9xV/P*	GRT380ZG	GRT360ZG	AM	GRT390ZP*	GRT96ZP	EU	GRT916V	GRT915M	GRT985MP	AO
▲ [MA]	1001	1-478-037-32	\$ & ADAPTOR, AC	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		1-478-390-21	\$ & ADAPTOR, AC																	
		1-478-390-51	\$ & ADAPTOR, AC																	
▲ [MA]	1002	A-8067-763-A	\$ # & BP2NX SNT(JASSY(S)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		A-8120-051-A	\$ # & BP2NY(UASSY(S)																	
		A-8120-052-A	\$ # & BP2NY(UASSY(S)																	
		1-756-269-42	\$ # & BATTERY PACK, LITHIUM ION																	
		A-8120-053-A	\$ # & BP2NY (E) ASSY (S)																	
▲ [MA]	1003	1-757-562-21	& CORD, POWER	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		1004	1-790-732-32	& CORD, POWER	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		1005	1-575-131-61	& CORD, POWER	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
▲ [MA]	1006	1-782-476-22	& CORD, POWER	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		1007	1-417-422-11	& RF ATTENUATOR CABLE(TV)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		1008	4-673-694-01	& COMBO DUMMY	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		4-679-472-01	& COMBO DUMMY	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		1009	1-823-959-11	& CORD, COAXIAL CONNECTOR WITH (TV)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
▲ [MA]	1010	1-477-556-21	& REMOTE COMMANDER (TV)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		1-477-900-11	& REMOTE COMMANDER	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
▲ [MA]	1011	1-477-218-41	& RAY-CATCHER UNIT (TV)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		1012	1-770-019-12	& (UK)...ADAPTOR, CONVERSION PLUG 3P (GB)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		- 1-816-429-12	& (UK)...PHONE PLUG (GB)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		- 4-681-592-01	& Instruction Manual (XP)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		- 4-682-678-31	& Instruction Manual (XP)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		- 4-681-680-01	& QUICK START	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
		- 4-681-768-01	& GETTING START BOOKLET	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

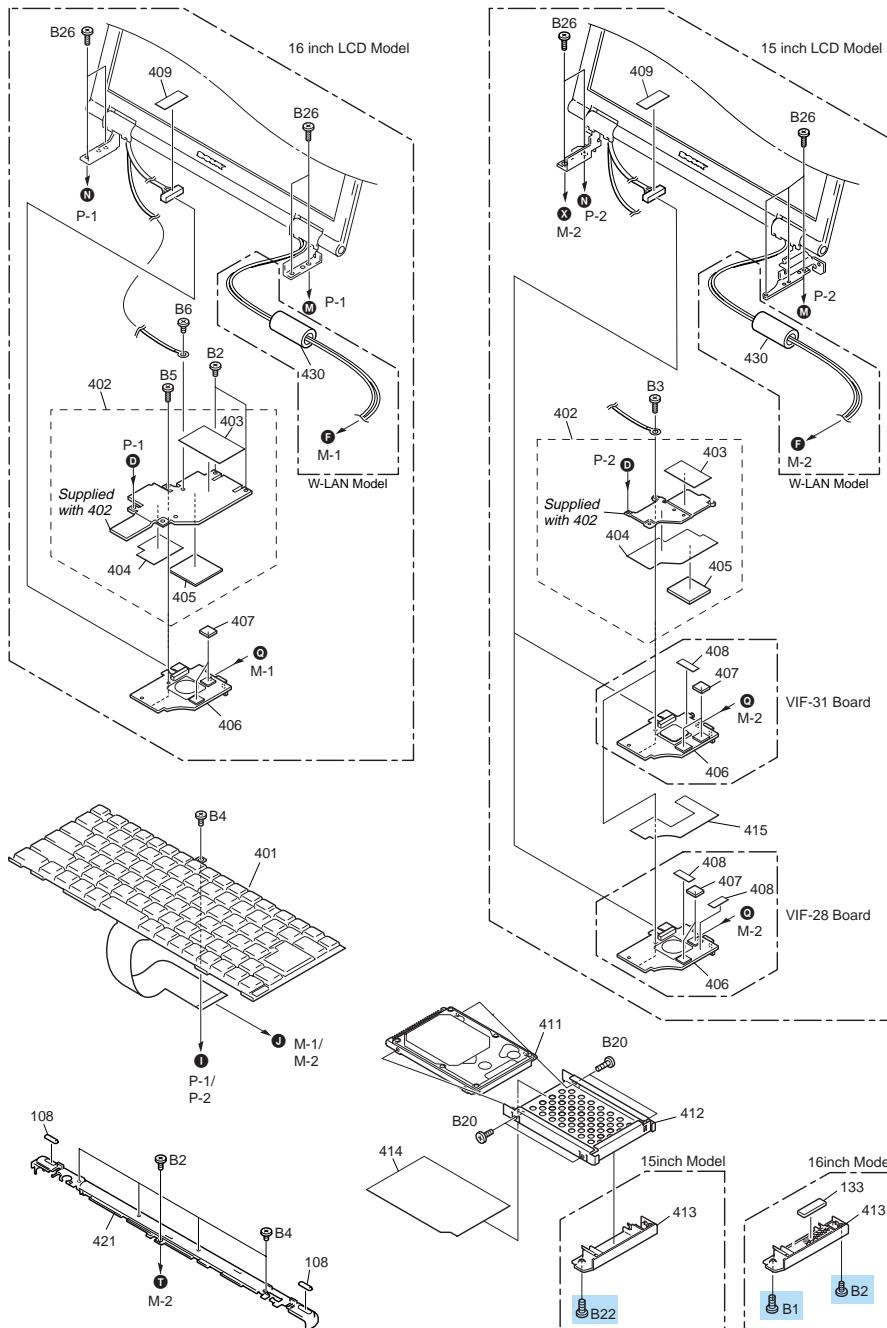
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PCG-GRT55F/GRT5xF/GRT77V/GRT99V/GRT9xV (J)
PCG-GRT360ZG/GRT380ZG/GRT390ZP/GRT390ZG (AM)
PCG-GRT915M/GRT916V/GRT916Z/GRT995MP/GRT996VP/GRT996ZP (EU)
PCG-GRT50ZCP (AO)

O-1. Other Parts



Ref.No.	Part No.	Description
403	4-670-461-01	SHEET BLIND (PLATE HEATSINK)
404	4-673-987-01	VGA PLATE MYLAR
405	4-676-423-01	VGA THERMAL PAD
409	4-676-418-01	CAPTON TAPE
412		BRACKET HDD
413	X-4626-511-1	ASSY DOOR HDD △[COR]
414	4-653-801-11	SHEET HDD
B2	4-641-726-11	& SCREW (M2), SPECIAL HEAD
B4	4-641-726-81	SCREW (M2), SPECIAL HEAD
B20	4-635-301-01	SCREW M3X4
B26	4-644-637-01	GRIP,M2 EG

Ref.No.	Part No.	Description	AM																	
			GRT99V/P	GRT77V/P	GRT55FB	GRT5xF*	GRT5xFP*	GRT9xV*	GRT9xVP*	GRT7380ZG	GRT380ZG	GRT390ZP*	GRT1390Z*	GRT1996ZP	GRT916Z	GRT986VP	GRT916V	GRT915M	GRT995MP	GRT50ZCP
108	4-676-948-01	RUBBER STOPPER	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
133	4-680-193-01	GASKET KB(4W*2.5H*20L)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
401	4-478-018-11	\$ # KEY BOARD UNIT (JP)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	1-478-018-21	\$ # KEY BOARD UNIT (US)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	1-478-023-11	\$ # (UK)...KEY BOARD UNIT (GB)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	1-478-023-21	\$ # (German/Austrian)...KEY BOARD UNIT (DE)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	1-478-023-31	\$ # (Swiss)...KEY BOARD UNIT (CH)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	1-478-023-41	\$ # (French)...KEY BOARD UNIT (FR)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	1-478-023-51	\$ # (Italian)...KEY BOARD UNIT (IT)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	1-478-023-81	\$ # (Spanish)...KEY BOARD UNIT (ES)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	1-478-023-91	\$ # (Swedish)...KEY BOARD UNIT (SE)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
402	X-4625-931-2	VGA HEAT PLATE ASSY	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
X-4626-513-1		ASSY VGA HEAT PLATE	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
406	A-8068-276-A	\$ COMPLETE PWB VIF-31	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
A-8068-605-A	\$	COMPLETE PWB VIF-28(IN)REV3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
A-8068-739-A		COMPLETE PWB VIF-28(IN)REV3 SPG	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
407	4-677-667-01	G-680-672-01	VGA PAD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	4-677-943-01	VGA MEMORY PAD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
408	A-8067-943-A	\$ # HDD (80GB,IC25N080ATMR04)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	A-8116-402-A	\$ # HDD (60GB,IC25N060ATMR04)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	A-8116-404-A	\$ # HDD (40GB,IC25N040ATMR04)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	A-8117-058-A	\$ # ASSY HDD 80GB(H.40)(S)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	A-8117-059-A	\$ # HDD (DK23FA-40,40G)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
	A-8117-585-A	\$ # HDD (DK23FA-60,60G)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
413	X-4626-511-1	ASSY DOOR HDD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
4-673-686-01		DOOR HDD(15)	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
415	X-4626-407-1	HEAT PLATE	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
421	X-4625-916-1	ASSY DISPLAY BASE	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
430	4-600-255-21	& FERRITE CORE	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
B1	4-654-811-21	& SCREW M3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
B3	4-656-703-01	SCREW (M2), SPECIAL HEAD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
B5	4-641-726-41	SCREW (M2), SPECIAL HEAD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
B6	4-656-703-01	& SCREW M2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
B22	4-654-811-01	SCREW M3	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	

- This parts list contains two different types of parts.
The first type is the parts that are common to all models.
The other type is the parts that are different depending on each model.
- この部品表は、機種共通の部品と、機種によって使い分けが必要な部品に分かれています。

DIP Switch

The DIP switch setting is following table.
DIPスイッチの設定は下の表をご参照ください

	S801			S802	
J	PCG-GRT99V/P		PCG-GRT77V/P		PCG-GRT55F/B
AM	△[MA] PCG-GRT380ZG		△[MA] PCG-GRT360ZG		△[MA] PCG-GRT360ZG/GRT380ZG
EU	PCG-GRT996ZP		PCG-GRT916Z		PCG-GRT996VP/ GRT916Z/ GRT996VP/ GRT916V
AO	△[MA] PCG-GRT50ZCP				△[MA] PCG-GRT50ZCP

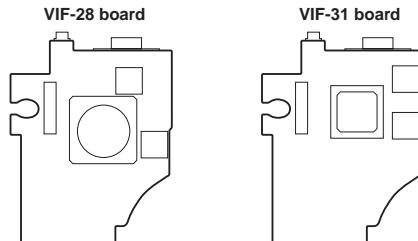
The DIP switch setting is different depending the types of LCD, CPU and VIF board.

Set the DIP switch of the CTO model in accordance with the [FOR CTO MODEL].

For the method of identifying the types of the VIF board, see the illustration shown right figure.

DIPスイッチの設定は、LCD や CPU、VIF 基板の種類により異なります。
CTO モデルは、[FOR CTO MODEL] の表に従って DIP スイッチを設定してください。

VIF 基板の見分け方については、右記の図をご覧ください。

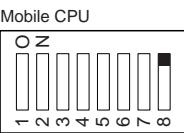
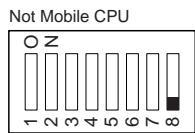


[FOR CTO MODEL]

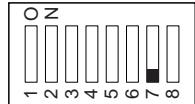
• S801

CPU Type
1 : Not Mobile CPU
0 : Mobile CPU

Reserved



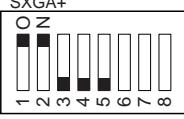
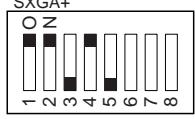
LCD Size
1 : 16inch LCD
0 : 15inch LCD



LCD Type
VIF-28 board
01101 : XGA
00101 : SXGA+
11001 : UXGA

VIF-31 board
01111 : XGA
00111 : SXGA+
11011 : UXGA

0 : ON 1 : OFF



• S802

15-inch Model



16-inch Model



CHAPTER 5.

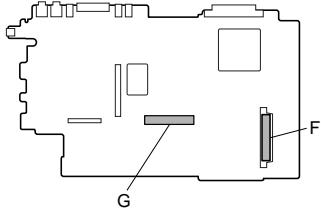
OTHERS

5-1. The barcode label

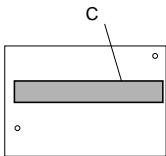
The hatched portion of the barcode label is used as the repair data.

バーコードラベルの網掛け部は、修理データとして使用いたします。

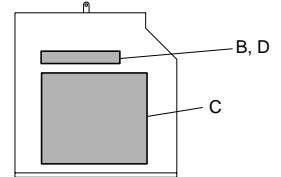
[MBX-86, 104 Board] (Side A)



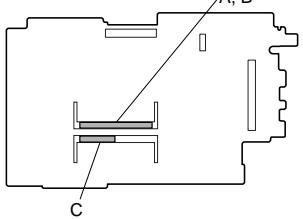
[Modem Card]



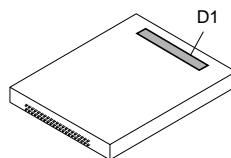
[DVD+-RW Drive] (Made by So) (Top)



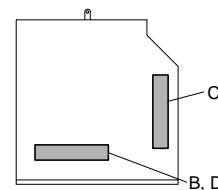
[MBX-86, 104 Board] (Side B)



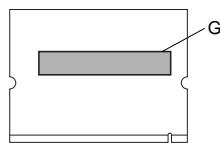
[HDD] (Made by I) (Top)



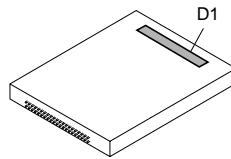
[Combination Drive] (Made by So) (Top)



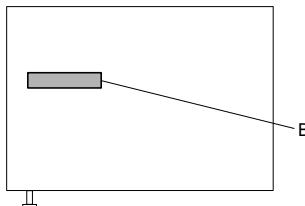
[Wireless LAN Card]



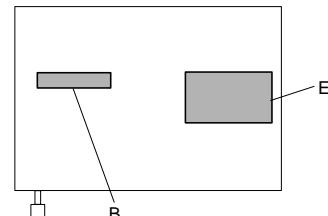
[HDD] (Made by Hi) (Top)



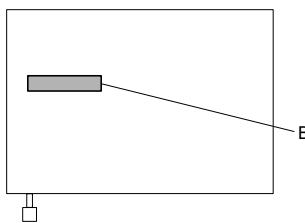
[LCD Unit (16-inch UXGA Clear Black) (HI)] (Rear)



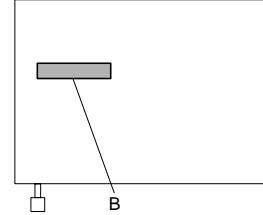
[LCD Unit (15-inch XGA) (SH)] (Rear)



[LCD Unit (16-inch SXGA Clear Black) (HI)] (Rear)



[LCD Unit (15-inch XGA Clear Black) (HI)] (Rear)



A : Parts No.

B : Serial No.

C : Revision No.

D : Product code

E : Maker Barcode

F : Global User ID (iLink)

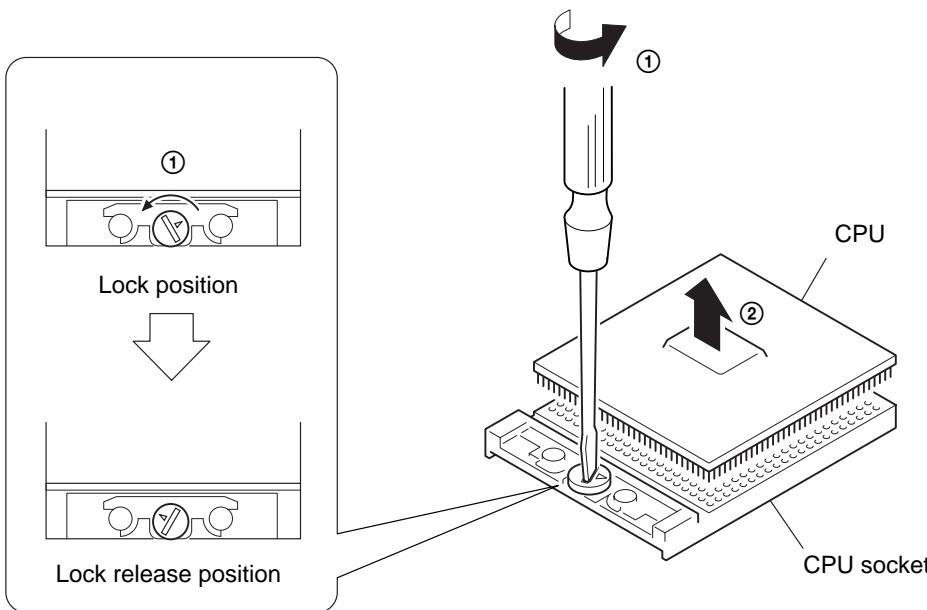
G : Mac Address

□ : Barcode

5-2. Replacing the CPU

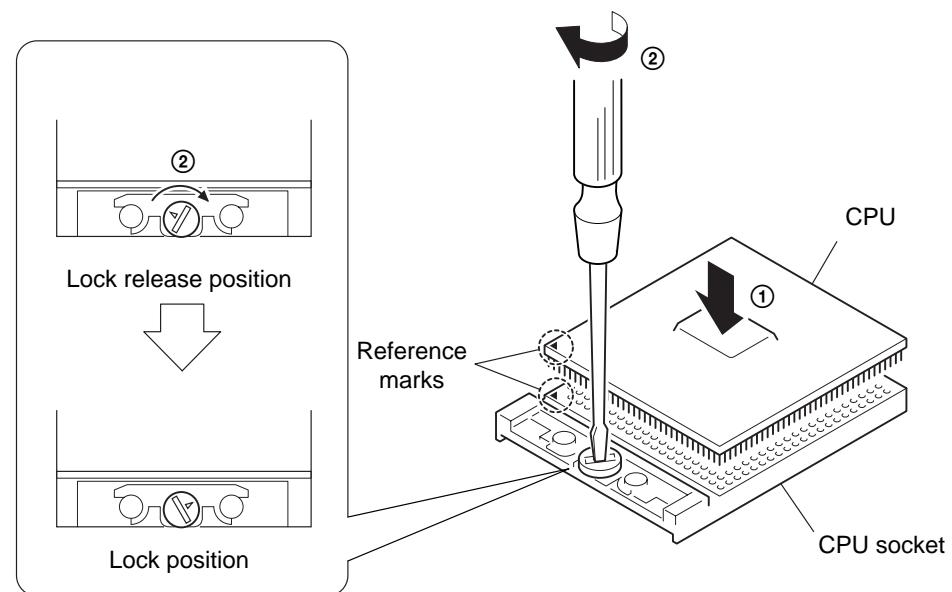
1. Removing the CPU

- ① Insert a flat-blade screwdriver into the notch as shown in the illustration and rotate it so that the protrusion comes to the lock release position.
- ② Pull the CPU gently upward to lift it out of the CPU socket.



2. Installing the CPU

- ① Align the triangle reference mark of the CPU with that of the CPU socket and insert all the pins of the CPU to the corresponding holes of the CPU socket.
- ② While pressing the two positions marked by O, insert the flat head (-) screwdriver into the specified position and rotate the screwdriver to the LOCK position.



NOTE:

Rotate a flat-blade screwdriver to the lock position securely. If not, the operation of the CPU may become unstable.



PCG-GRT55F/GRT5xF/GRT77V/GRT99V/GRT9xV (J)

PCG-GRT360ZG/GRT380ZG/GRT390Z/GRT390ZP (AM)

PCG-GRT915M/GRT916V/GRT916Z/GRT995MP/GRT996VP/GRT996ZP (EU)

PCG-GRT50ZCP (AO)

List of PCG-GRT Series (As of June, 2005)

Service Manual Part No.	Model Name			
	J	AM	EU	AO
9-876-309-XX	PCG-GRT55/B	PCG-GRT25F	PCG-GRT715E	PCG-GRT25
	PCG-GRT77/B	PCG-GRT150	PCG-GRT715M	PCG-GRT25CP
	PCG-GRT99/P	PCG-GRT160	PCG-GRT716S	PCG-GRT25L
		PCG-GRT170	PCG-GRT785B	PCG-GRT30CP
			PCG-GRT785E	PCG-GRT30LP
			PCG-GRT786M	PCG-GRT30P
			PCG-GRT795MP	
			PCG-GRT796MP	
			PCG-GRT796SP	
9-876-343-XX	PCG-GRT55E/B	PCG-GRT35F	PCG-GRT815E	
	PCG-GRT5xE*	PCG-GRT230G*	PCG-GRT815M	
	PCG-GRT55E/P*	PCG-GRT240G	PCG-GRT816M	
	PCG-GRT77E/P	PCG-GRT250G*	PCG-GRT816S	
	PCG-GRT7xE*	PCG-GRT260G	PCG-GRT895MP	
	PCG-GRT7xE/P*	PCG-GRT270G*	PCG-GRT896HP	
		PCG-GRT270G	PCG-GRT896SP	
9-876-344-XX	PCG-GRT99S/P	PCG-GRT280ZG		PCG-GRT40ZP
		PCG-GRT290ZP*		PCG-GRT40ZLP
		PCG-GRT290Z*		PCG-GRT40ZTP
9-876-361-XX	PCG-GRT5xF*	PCG-GRT360ZG	PCG-GRT915M	PCG-GRT50ZCP
	PCG-GRT5xF/P*	PCG-GRT380ZG	PCG-GRT916V	
	PCG-GRT77V/P	PCG-GRT390Z*	PCG-GRT916Z	
	PCG-GRT99V/P	PCG-GRT390ZP*	PCG-GRT995MP	
	PCG-GRT9xV*		PCG-GRT996VP	
	PCG-GRT9xV/P*		PCG-GRT996ZP	

* : CTO Model

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Revision History

Suffix	Ver.	Date	Contents	QM No.
-01	Ver. 1	2004.01.13	First Edition	
-02	Ver. 2	2003.01.26	① Front Page (Model Line Up), Page 1-1, Page 4-1 - 4-2, Page 4-4, Page 4-6, Page 4-8 - 4-10, Page 4-13 - 4-15, Back Cover	N2004_005AK
-03	Ver. 3	2004.02.09	② Front Page (Model Line Up), Page 3, Page 1-1, Page 1-4, Page 4-1 - 4-2, Page 4-4, Page 4-6, Page 4-8 - 4-10, Page 4-13 - 4-15, Back Cover	N2004_019AK
-04	Ver. 4	2004.03.22	③ Front Page (Model Line Up), Page1-1, Page 4-1 - 4-2, Page 4-4, Page 4-6, Page 4-8 - 4-10, Page 4-13 - 4-15, Back Cover	N2004_039AK
-05	Ver. 5	2004.07.30	④ Page 4-3, Page 4-10 - 4-12, Page 4-14	N2004_088CK
-06	Ver. 6	2005.02.07	⑤ Page 4-2, Page 4-4, Page 4-5	N2004_155CK
-07	Ver. 7	2005.06.09	⑥ Page 4-4, Page 4-5	N2005_025CK
<Remarks>				

[Confidential]

PCG-GRT55F/GRT5xF/GRT77V/GRT99V/GRT9xV (J)
 PCG-GRT360ZG/GRT380ZG/GRT390Z/GRT390ZP (AM)
 PCG-GRT915M/GRT916V/GRT916Z/GRT995MP/GRT996VP/GRT996ZP (EU)
 PCG-GRT50ZCP (AO)